DATA

A Summary Report on the Effects of Dredging, Dredged Spoils Disposal and Lakefilling Activities on Water Quality in the Toronto Waterfront
August 15 - November 29, 1980

Ministry of the Environment
Water Resources Branch
Great Lakes Section

November 1981

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UNITS & SYMBOLS

uS/cm	- microsiemens per centimetre
mg/L	- milligrams per litre (ppm)
mg/g	- milligrams per gram (parts per thousand)
ug/L	- micrograms per litre (ppb)
ug/g	- micrograms per gram (ppm)
FTU	- Formazin Turbidity Units
org/100 mL	- number of bacteria organisms per 100 millitres of water
<	- less than
>	- greater than
X	- not detected
–	- no data (otherwise blank)

TRUCKED FILL QUALITY

NUTRIENTS, VOLATILE SOLIDS, OILS & GREASES

Source	TP mg/g	T.K.N. mg/g	Volatile Solids (% loss on ignition)	Oils & Greases µg/g
Aug. 1, 1980				
Spadina & Front	.53	.69	7.3*	1134
CN Tower Area	.99	1.00	6.0	500
Bloor & Jarvis	1.00	.50	4.1	123
Bloor & Jarvis	.91	.61	3.2	242
Bloor & Jarvis	.74	.52	4.3	126
Yonge & Front	.50	.26	3.2	1235
Front & Spadina	.51	.35	3.0	734
Coxwell & Danforth	.76	.18	1.6	154
Yorkville & Yonge	.36	.26	1.3	612
Yonge & Front	.49	.44	3.2	968
Lansdowne & Dupont	.67	.44	3.1	1250
Bathurst & Lawrence	.76	.18	1.2	100
Aug. 26, 1980				
Bay & Yorkville	.88	.48	2.1	97
Bloor & Jarvis	.51	.24	1.44	134
Bay & Queen	.62	.48	2.51	170
Front & Spadina	.71	.55	3.18	190
Bay & Dundas	.56	.27	0.93	345
Yonge & Eglinton	.67	.40	1.99	183
Front & Bathurst	.62	.47	3.60	217
Bayview & DVPW	.71	.48	2.46	9950*
Yonge & Front	.65	.40	1.54	337
Sumach	.34	.18	0.47	184
MOE Guideline	1	2	6	1500

* indicates level exceeding MOE guideline for open water disposal

GRAIN SIZE DISTRIBUTION

Source	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay	
m.m.	2.00-4.75	1.00-2.00	0.50-1.00	0.25-0.50	0.125-0.250	0.0625-0.125	0.005-0.0625	0.004-0.005	<0.004
Aug. 1, 1980									
Spadina & Front	27	8.1	10	21	12	4.0	9.3	1.7	6.9
CN Tower Area	14	3.5	4.5	9.0	6.8	4.1	30.2	3.9	24
Bloor & Jarvis	-	0.19	0.05	0.18	0.34	0.32	37.72	3.2	58
Bloor & Jarvis	1.1	0.50	0.80	1.2	3.5	1.3	37.9	8.7	45
Bloor & Jarvis	0.30	-	-	0.03	0.06	0.09	40.52	11	48
Yonge & Front	5.1	3.8	3.9	5.7	6.1	6.6	34.8	-	34
Front & Spadina	17	9.9	12	16	11	4.3	15.4	2.4	17
Coxwell & Danforth	0.91	0.62	0.97	6.3	40	33	11.5	-	6.7
Yorkville & Yonge	0.43	0.34	2.1	27	5.0	9.0	4.93	-	6.2
Yonge & Front	5.2	2.6	3.6	6.1	6.3	6.4	31.9	4.9	33
Lansdowne & Dupont	3.6	1.1	1.3	3.9	8.5	7.5	44.1	5.0	25
Bathurst & Lawrence	5.7	1.3	2.5	7.1	13	13	38	3.2	14
Aug. 26, 1980									
Bay & Yorkville	0.09	0.18	0.25	0.65	1.2	1.3	13.93	4.4	78
Bloor & Jarvis	1.8	1.5	1.6	2.3	1.8	0.88	33.02	4.1	53
Bay & Queen	9.6	0.86	1.5	3.7	6.6	8.0	22.74	16	31
Front & Spadina	34	5.1	7.0	12	5.8	3.6	24.75	0.75	17
Bay & Dundas	6.1	3.0	4.3	12	16	15	32.6	-	11
Yonge & Eglinton	5.5	0.89	1.6	4.3	7.6	9.3	37.81	16	17
Front & Bathurst	21	6.4	7.7	9.6	5.4	4.3	23.2	2.4	20
Bayview & DVPW	13	4.2	5.4	11	11	6.8	24.3	1.3	23
Yonge & Front	21	4.2	4.5	5.2	5.2	5.1	26.98	0.82	27
Sumach	13	4.7	6.2	16	40	13	5.8	-	1.3

All values as % composition in each size class

ORGANOCHLORINE COMPOUNDS

	PCB	HCB	α- BHC	LINDANE	β - BHC	HEPTACHLOR	HEPT. EPOXIDE	ENDRIN	THIODAN I	THIODAN II	ALDRIN	DIELDRIN	pp DDE	op DDT	pp DDD	pp DDT	α- CHLORDANE	γ - CHLORDANE	MIREX
Aug. 1, 1980																			
Spadina & Front	X	X	.001	X	X	X					X		X	X	X	X	X	X	X
CN Tower Area	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Bloor & Jarvis	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Bloor & Jarvis	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Bloor & Jarvis	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Yonge & Front	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Front & Spadina	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Coxwell & Danforth	X	X	.003	X	X	X					X		X	X	X	X	X	X	X
Yorkville & Yonge	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Yonge & Front	X	X	X	X	X	X					X		X	X	X	X	X	X	X
Lansdowne & Dupont	X	X	.001	X	X	X					X		X	X	X	X	X	X	X
Bathurst & Lawrance	.030	X	X	X	X	X					X		X	X	X	X	X	X	X
Aug. 26, 1980																			
Bay & Yorkville	X	X	X	X	X	X	X	X	X	X	X	X	X	X	.005	X	X	X	X
Bloor & Jarvis	X	.010	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	.015	X
Bay & Queen	X	.001	.001	X	X	X	X	X	X	X	X	X	X	X	X	.005	X	X	X
Front & Spadina	X	.010	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	.010	X
Bay & Dundas	X	.001	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Yonge & Eglinton	X	.001	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	.005	X
Front & Bathurst	X	.001	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bayview & DVPW	X	.005	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Yonge & Front	.02	.001	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sumach X	.001	X	X	X	X	X	X	X	X	X	X	X	.005	X	X	X	X	X	
MOE guideline	.05																		

All concentrations: µg/g

METALS

Source	Hg	Pb	Zn	Cu	Al	Fe	Cr	Ni
Aug. 1, 1980								
Spadina & Front	.11	260*	73	120*	4,400	21,000*	16	15
CN Tower Area	.06	87*	63	76	11,000	22,000*	24	19
Bloor & Jarvis	< .01	8	58	24	17,000	26,000*	33*	23
Bloor & Jarvis	.01	5	54	22	14,000	24,000*	30*	21
Bloor & Jarvis	< .01	6	60	23	18,000	27,000*	33*	24
Yonge & Front	.01	15	50	20	13,000	21,000*	27*	20
Front & Spadina	.11	38	50	49*	4,600	13,000*	11	8
Coxwell & Danforth	.01	< 3	18	6	5,200	11,000*	9.8	5.2
Yorkville & Yonge	.05	28	29	6.2	3,500	6,800	7.2	5
Yonge & Front	< .01	13	48	19	13,000	24,000*	29*	21
Lansdowne & Dupont	.01	7.7	49	16	11,000	23,000*	20	17
Bathurst & Lawrence	< .01	< 3	19	7.3	4,100	10,000	10	7
Aug. 26, 1980								
Bay & Yorkville	.01	5	61	24	19,000	28,000*	37*	27*
Bloor & Jarvis	< .01	4	53	21	15,000	25,000*	32*	21
Bay & Queen	< .01	14	69	22	14,000	21,000*	33*	22
Front & Spadina	2.0*	66*	90	57*	12,000	26,000*	26*	26*
Bay & Dundas	< .01	5.5	28	9.3	4,500	10,000	9	8.8
Yonge & Eglinton	< .01	7	57	17	12,000	20,000*	31*	19
Front & Bathurst	2.0*	140*	100	100*	13,000	27,000*	31*	27*
Bayview & DVPW	.01	21	61	20	12,000	22,200*	25*	22
Yonge & Front	.01	30	59	23	13,000	23,000*	29*	24
Sumach	< .01	3	12	5	24,000	5,200	4.5	6.2
MOE Guideline	.3	50	100	25		10,000	25	25
Background [1]	.02	18	42	19		17,416	18	17

all concentrations: µg/g

* indicates level exceeding MOE guideline for open water disposal

[1] L. Ontario erodable bluff material (Thomas R.L. & A. Mudroch, 1979).

DON RIVER MOUTH (STN. 1375)
SEDIMENT QUALITY

NUTRIENTS, OILS & GREASES, VOLATILE SOLIDS, METALS & PCBs

Sample	Depth (cm)	T P mg/g	TKN mg/g	Oils & Greases	Volatile Solids (% loss on ignition)	Lead	Zinc	Cadmium	PCB
Ponar	0-3	0.81	0.61	1420	2.1	59	85	0.65	0.185*
	0-3	1.10*	1.50	4880*	4.5	170*	210*	0.93	0.038
	0-3	1.20*	2.00	4700*	4.6	230*	240*	1.60*	0.165*
Core	45-90	1.00	1.70	7300*	5.7	120*	160*	0.95	
	90-135	0.63	0.34	730	1.4	44	64	0.65	0.028
	135-180	1.00	1.20	4570*	3.4	180*	210*	1.20*	x
	180-225	0.73	0.38	500	0.8	37	44	0.48	x
	225-250	1.00	1.20	3250*	4.1	140*	180*	1.20*	0.230*
	250-270			2170*	2.6	130*	140*	0.80	x
MOE Guideline		1	2	1500	6.0	50	100	1.0	0.05

All concentrations µg/g except where noted
x - none detected
* indicates level exceeding MOE guideline for open water disposal

GRAIN SIZE DISTRIBUTION

Sample	Depth (cm)	Particle Size (mm)								
		Gravel 2.00-4.75	Very Coarse Sand 1.00-2.00	Coarse Sand 0.50-1.00	Medium Sand 0.25-0.50	Fine Sand 0.125-0.250	Very Fine Sand 0.0625-0.125	Silt 0.005-0.0625	Clay 0.004-0.005	Clay < 0.004
Ponar	0-3	-	0.04	0.26	20	19	31	18.7	2.4	8.6
	0-3	0.05	0.06	0.13	5.0	11	21	40.36	2.4	20
	0-3	-	0.05	0.18	3.1	6.3	17	48.07	5.3	20
Core	0-45		l o s t	d u r i n g	r e t r i e v a l					
	45-90	0.17	0.10	0.63	23	16	17	27.8	1.3	14
	90-135	0.07	0.14	3.2	29	15	22	22.99	2.2	5.4
	135-180	0.06	0.05	0.84	9.7	8.1	17	39.95	2.3	22
	180-225	0.04	0.11	1.9	17	24	32	20.95		4.0
	225-270 top	0.04	0.03	0.43	6.2	7.0	18	47.7	1.6	19
	225-270 bottom		0.07	0.29	2.8	16	26	38.94	2.9	13

All values as % composition in each size class.

WATER QUALITY
ALONG THE TORONTO WATERFRONT

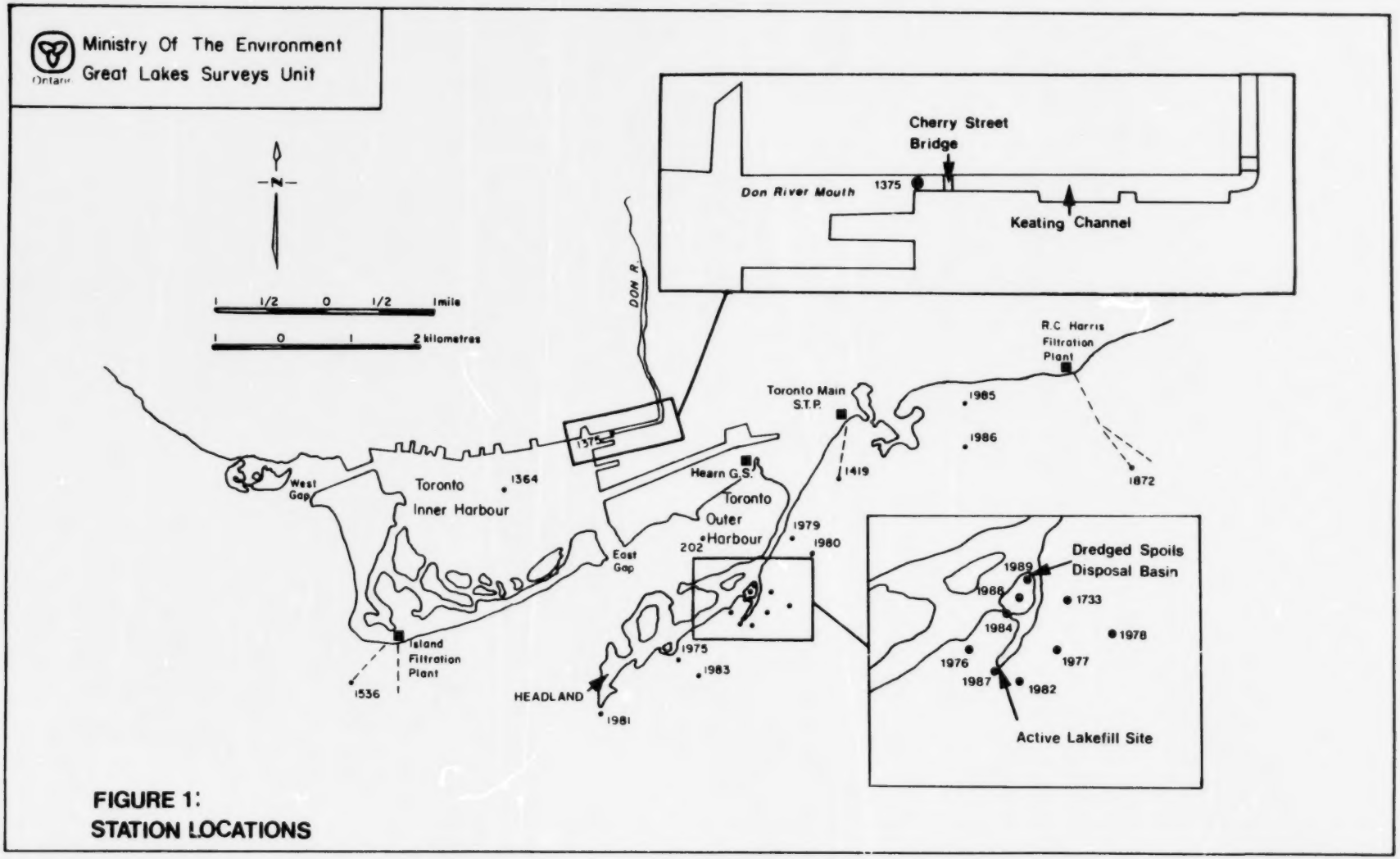

FIGURE 1:
STATION LOCATIONS

SUMMARY OF PROVINCIAL WATER QUALITY OBJECTIVES

PARAMETER	PROVINCIAL WATER QUALITY OBJECTIVE	BASIS
Aldrin & Dieldrin	.001 µg/L	Aq
Cadmium	.2 µg/L	Aq
α & γ Chlordane	.06 µg/L	Aq
Chromium	100 µg/L	Aq
Coliforms	*	R
Copper	5 µg/L	Aq
DDT & Metabolites	.003 µg/L	Aq
Endrin	.002 µg/L	Aq
Heptachlor & Hept. Epoxide	.001 µg/L	Aq
Lead	25 µg/L	Aq
Lindane	.01 µg/L	Aq
Mirex	.001 µg/L	Aq
PCB's	.001 µg/L	Aq
pH	6.5 - 8.5	R
Thiodan I & II	.003 µg/L	Aq
Zinc	30 µg/L	Aq

Aq - Objectives established for the protection of aquatic life

R - Objectives established on the basis of recreational considerations

* 1) Geometric mean density for total coliforms not to exceed 1000/100 mL.

2) Geometric mean density for fecal coliforms not to exceed 100/100 mL.

Nutrients, Turbidity, Bacteria and Associated Parameters

TURBIDITY

FTU

STATION NUMBER	DEPTH (m)	Aug. 19	Aug. 25	Sept. 2	Sept. 4	Sept. 8	Sept. 11	Sept. 15	Sept. 18	Sept. 22	Sept. 29	Oct. 2	Oct. 6
1872	1.5	2.6	1.3	1.3	0.70		1.0	0.55	0.70	1.0	0.53	1.1	1.4
	5.0										1.4	0.45	1.4
	10.0										1.8	0.45	1.4
1985	1.5										3.9	1.4	1.5
	4.0										1.5	0.60	3.3
1986	1.5										2.1	0.45	0.90
	5.0										2.1	0.75	1.1
	10.0										2.3	0.75	1.0
1419	1.5	5.6	3.3	2.5	1.5	1.6	1.7	1.3	1.7	1.6	3.7	0.90	1.5
	5.0										5.9	0.40	1.3
	6.0										5.9	2.8	1.3
1979	1.5		3.1	1.0	0.90	0.60	1.0	0.60	2.0	1.3		0.45	1.1
	5.0		2.8	1.5	2.5	0.40	0.95	0.60	1.5	1.3		0.65	1.2
	7.0		2.9	1.2	4.0	0.80	0.70	1.0	1.9	0.80		0.75	1.2
1980	1.5	2.2	2.3	1.1	1.1	0.50	3.3	0.60	2.2	0.60		0.70	1.0
	5.0	2.9	2.5	2.0	1.1	0.60	2.5	0.45	2.0	0.70		0.50	1.0
	9.0	1.7	2.3	1.0	1.5	1.1	1.0	1.2	1.9	1.3		0.85	1.6
1733	1.5	2.4	2.7	1.0	0.85	0.70	6.5	0.28	1.5	0.80		0.045	2.0
	5.0	2.2	2.5	1.1	1.0	0.65	1.3	0.65	1.5	1.3		0.75	4.4
	9.0	7.3	2.6	2.1	1.5	1.0	0.65	0.75	1.4	1.7		0.45	2.6
1978	1.5	2.2	2.0	2.8	0.95	0.55	16	0.50	1.2	0.60		0.50	1.0
	5.0	1.8	1.8	1.4	1.1	0.55	2.9	0.55	1.3	0.60		0.65	0.95
	11.0	3.3	3.1	1.0	1.0	0.45	0.55	1.3	1.5	2.4		0.35	1.3
1977	1.5	2.1	2.1	1.5	1.1	1.1		0.50	1.7	0.55		0.70	4.8
	5.0	1.9	2.5	1.3	1.4	1.0		0.65	2.1	1.3		0.70	15.0
	9.0	3.6	3.3	2.5	1.3	0.60		1.0	1.3	1.0		0.40	12.0
1987	1.5											11.0	18.0
	5.0											3.5	26.0
1984	1.5	5.9	2.8	5.5	1.2	1.5		3.5	6.3	2.7		3.9	2.0
	5.0												2.0
	6.0											3.6	2.2
1976	1.5	3.0	2.5	2.0	1.3	1.4		2.9	3.5	4.1		6.8	1.6
	5.0	4.9	3.0	2.5	1.0	1.1		4.3	3.5	4.7		7.6	1.6
	7.0	5.5	2.8	6.0	1.3	2.5		3.4	3.4	3.2		3.3	1.5
1982	1.5	1.7	2.3	5.0	0.95	0.45		0.70	4.7	0.50		0.50	1.1
	5.0	3.0	2.8	0.60	4.8	1.0		3.4	4.6	1.5		0.80	1.8
	11.0	7.2	3.3	0.20	1.5	1.0		0.65	2.0				1.1
1975	1.5	1.7	2.4	1.8	1.0	1.1		2.5	2.6	2.6		0.60	1.4
	5.0	2.1	2.5	0.65	1.0	1.5		2.5	2.7	1.6		0.65	1.0
	8.0	2.6	2.3	1.7	0.90	0.55			1.5	1.5		3.3	1.3
1983	1.5	1.6	1.5	0.60	1.1	1.0		0.60	2.5	0.65		0.65	1.1
	5.0	1.6	2.5	0.60	1.3	1.8		1.1	1.8	0.75		0.65	1.0
	11.0	2.0	2.2	0.60	1.6	0.50		1.4	1.1	1.3		0.60	1.0
1981	1.5	1.8	2.0	0.80	1.2	1.1		0.80	2.0	0.90		0.55	1.4
	5.0	2.3	1.6	0.35	1.1	1.0		1.1	2.3	1.7		0.40	1.5
	11.0	2.8	2.8	1.3	1.2	0.50		1.5	1.8	0.60		0.40	1.1
1536	1.5		1.8	0.90	1.0	1.0		0.70	1.6	1.3	0.80	1.0	
	5.0										0.95	1.3	
	6.0										1.3	1.3	
1364	1.5	1.8	2.0	2.0	1.1	1.3	0.95	1.0	1.0	1.3	0.73	1.7	
	5.0										1.9	0.85	
	6.0										0.75	1.1	
1375	1.0	11.0	18.0	14.0	13.0	14.0	10.0	8.0	4.6	4.1	5.5	11.9	
202	1.5	1.9	1.8	1.5	1.4	1.3	1.3	1.0	1.1	1.2	2.0	0.75	
	5.0										1.3	1.2	
	9.0										1.4	1.4	

TURBIDITY cont.

FTU

STATION NUMBER	DEPTH (m)	Oct. 9	Oct. 14	Oct. 17	Oct. 20	Oct. 28	Nov. 5	Nov. 7	Nov. 13	Nov. 14	Nov. 20	Nov. 24	Nov. 25
1872	1.5	3.1	1.6	0.60	0.80	1.5	0.75		1.0	1.0	0.75	0.70	
	5.0	3.0	1.4	0.75	0.95								
	10.0	1.1	0.70	0.85	0.85	1.1	0.75		1.0	0.90	0.60	0.75	
1985	1.5	2.4	1.5	1.5	1.4	2.0	1.6		1.7	1.5	1.1	1.6	
	4.0	2.4	1.7	1.0	1.1	2.1	1.6		1.8	1.7	1.0	1.1	
1986	1.5	0.55	0.70	1.3	1.0	1.3	1.0		1.0	0.90	1.1	1.0	
	5.0	0.60	0.50	1.3	0.75								
	10.0	0.60	0.55	0.90	0.85	1.3	1.0		1.0	0.95	2.6	1.0	
1419	1.5	1.8	0.90	1.7	1.4	2.1	4.5	3.0	2.5	2.3	4.9	1.4	
	5.0	2.3	0.80	4.3	1.4								
	6.0	1.6	0.55	2.8	1.4	2.5	4.0	6.8	2.3	1.3	5.5	1.8	
1979	1.5	5.5	0.70	2.5	1.3	3.1	5.0	5.9	1.9	2.3	5.0	1.6	
	5.0	5.0	0.55	2.0	1.5								
	7.0	5.0	0.80	2.5	1.6	5.5	3.5	11	2.5	2.0	5.5	1.8	
1980	1.5	1.7	0.80	1.0	1.0	4.0	4.5		2.6	1.8	1.5	1.5	
	5.0	1.8	0.75	1.5	1.1								
	9.0	1.9	0.90	1.3	1.0	5.6	4.6		1.3	1.8	1.3	1.9	
1733	1.5	7.5	1.4	2.2	1.6	3.6	7.9	8.5	1.9	2.3	5.5	1.8	
	5.0	2.4	1.0	2.0	1.5								
	9.0	2.8	1.0	2.2	1.5	3.6	6.6	14	3.1	2.4	5.3	2.1	
1978	1.5	2.3	0.80	2.0	0.80	3.5	4.7		2.3	4.6	1.4	3.3	
	5.0	1.1	0.80	1.0	0.75								
	11.0	3.4	1.2	1.7	0.90	5.0	2.0		7.7	1.6	1.2	8.1	
1977	1.5	2.0	1.7	1.2	0.18	5.4	7.6	10		3.4	20	1.8	
	5.0	2.8	1.5	1.1	1.1								
	9.0	2.6	1.1	2.7	0.85	5.9	9.5	25		12	24	3.6	
1987	1.5	1.3	1.0	7.3	3.2	1.8	31	1.8	1.3	1.5	3.4	2.5	
	5.0	1.3	8.0	7.0	2.4	2.6	35	20	38	1.5	2.7		
1984	1.5	5.5	3.5	4.0	3.6	14	24	27	6.0	7.1	16	6.4	
	5.0	1.6	2.8	5.8	3.5								
	6.0	2.0	6.7	4.9	3.0	22	24	22	7.6				
1988	1.5					33	24	35	2.5	17	17	17	
	4.0					30	25	34	2.4	17	18	18	
1989	1.5					36	33	30	33	48	21	29	
1976	1.5	1.5	2.0	3.0	2.2	7.6	6.5	20		3.0	11	3.0	
	5.0	1.8	1.2	2.7	2.5								
	7.0	2.3	2.3	3.1	2.7	7.9	15	26		2.6	11	3.0	
1982	1.5	1.5	1.1	3.4	1.0								
	5.0	2.0	0.70	2.5	0.90								
	11.0	31	0.60	4.2	0.85								
1975	1.5	0.60	4.9	2.8	0.80	6.5	2.6	4.0	2.0	1.2	1.5	1.7	
	5.0	0.65	0.45	4.0	0.80								
	8.0	0.85	2.1	3.2	0.80	6.5	2.5	5.8	2.0	1.2	1.5	1.8	
1983	1.5	0.80	1.5	5.7	0.80	2.4	2.0		1.7	1.0	0.95	0.70	
	5.0	0.65	1.7	5.8	0.65								
	11.0	0.65	1.8	4.5	0.70	2.0	1.7		1.5	1.0	0.95	1.1	
1981	1.5	0.55	5.1	1.8	1.1	3.0	2.5	3.1	1.5	1.4	1.1	1.3	
	5.0	0.60	1.4	0.90	0.85								
	11.0	0.70	0.70	1.1	0.20	2.5	3.0	3.5	2.8	1.0	1.3	1.6	
1536	1.5	0.95	1.1	1.4	1.0	1.8		3.0	1.0	1.0	1.2		1.1
	5.0	0.55	1.1	1.4	1.5								
	6.0	1.3	2.1	1.2	2.0	1.5		3.0	1.0	0.85	1.3		1.0
1364	1.5	1.5	0.70	1.6	3.8	3.7	4.3	3.6	3.1	3.0	4.9		2.8
	5.0	1.1	1.1	1.5	3.0								
	6.0	0.60	1.5	2.0	3.5	5.0	4.3	3.7	4.1	2.2	3.6		2.5
1375	1.0	1.6	5.0	68	33	7.1	8.5	5.4	8.0	2.5	75		6.8
202	1.5	1.2	1.2	1.4	2.0	3.1	3.5	2.3	3.0	2.9	2.4		3.8
	5.0	0.65	1.1	1.6	2.0								
	9.0	0.65	1.5	1.3	2.5	4.0	2.0	2.5	2.7	2.8	2.1		5.0

SUSPENDED SOLIDS

mg/L

STATION NUMBER	DEPTH (m)	Aug. 19	Aug. 25	Sept. 2	Sept. 4	Sept. 8	Sept. 11	Sept. 15	Sept. 18	Sept. 22	Sept. 29	Oct. 2	Oct. 6
1872	1.5	3	3	3		1	0.8	3	3	2	5	3	3
	5.0										19	14	5
	10.0										6	8	3
1985	1.5										27	4	3
	4.0										187	63	16
1986	1.5										4	2	2
	5.0										6	4	3
	10.0										159	10	5
1419	1.5	8	7	5	4	7	4.7	5	6	3	5	4	3
	5.0										22		4
	6.0										30		3
1979	1.5		3	5	2	3	2	1	5	1		7	4
	5.0		4	6	11	6	2	2	6	1		6	3
	7.0		4	7	19	4	1	4	5	3		5	3
1980	1.5	3	3	5	3	2	9	1	4	2		6	2
	5.0	4	3	8	3	2	5	4	5	2		2	2
	9.0	2	6	4	7	6	2	6	4	7		5	6
1733	1.5	4	3	8	3	2	20	2	4	3		4	5
	5.0	3	4	8	2	2	4	3	6	3		3	10
	9.0	28	1	7	3	3	2	3	4	7		5	8
1978	1.5	5	2	8	3	2	32	0.9	3	1		3	2
	5.0	2	3	4	3	3	7	2	3	1		2	2
	11.0	5	7	3	3	3	0.8	6	5	11		7	2
1977	1.5	3	1	6	2	3		2	4	1		2	17
	5.0	2	3	4	3	4		2	4	3		2	24
	9.0	6	10	20	2	2		3	5	3		2	30
1987	1.5											16	34
	5.0											10	58
1984	1.5	9	4	9	3	5		9	10	4		13	5
	5.0												4
	6.0											16	5
1976	1.5	4	3	6	3	4		10	6	7		12	2
	5.0	7	4	15	3	5		10	7	11		15	2
	7.0	7	4	14	3	6		9	6	8		10	2
1982	1.5	2	3	4	2	1		1	10	1		2	2
	5.0	4	5	1	9	3		8	11	35		11	4
	11.0	8	8	2	3	2		<1	7				2
1975	1.5	2	3	4	2	3		7	5	7		4	2
	5.0	2	4	2	2	4		10	5	4		4	2
	8.0	3	4	4	3	3			4	5		46	2
1983	1.5	2	3	1	2	2		16	6	3		3	1
	5.0	2	4	<0.1	3	4		5	5	2		2	1
	11.0	1	5	2	4	1		25	3	3		5	1
1981	1.5	1	3	2	2	4		2	6	6		3	1
	5.0	3	2	3	2	3		1	5	4		3	3
	11.0	5	4	6	3	2		3	1	4		4	2
1536	1.5		3	1	2	1		9	3	2	13	3	
	5.0										1	2	
	6.0										2	3	
1364	1.5	2	4	4	3	5	2	6	3	2	3	3	
	5.0										4	4	
	6.0										4	4	
1375	1.0	19	28	37	35	4	41	5	36	11	15	53	
202	1.5	3	2	4	4	3	2	2	3	2	3	3	
	5.0										3	4	
	9.0										4	4	

SUSPENDED SOLIDS cont.

mg/L

STATION NUMBER	DEPTH (m)	Oct. 9	Oct. 14	Oct. 17	Oct. 20	Oct. 28	Nov. 5	Nov. 7	Nov. 13	Nov. 14	Nov. 20	Nov. 24	Nov. 25
1872	1.5	5	3	1	2	3	2		2	3	0.9	0.6	
	5.0	18	5	2	2								
	10.0	6	3	3	1	0.8	3		4	2	1	0.7	
1985	1.5	6	4	2	0.8	3	3		5	3	2	2	
	4.0	288	8	3	2	3	2		5	3	2	2	
1986	1.5	2	1	2	1	2	2		2	1	2	2	
	5.0	4	2	2	2								
	10.0	8	2	0.5	2	2	3		4	2	19	2	
1419	1.5	4	2	4	2	3	6	7	8	6	9	2	
	5.0	9	3	7	4								
	6.0	4	2	7	3	3	7		6	5	18	4	
1979	1.5	10	1	5	3	4	10	11	5	4	13	2	
	5.0	9	2	6	3								
	7.0	9	2	7	4	16	8	18	9	5	12	4	
1980	1.5	6	2	2	5	3	8		6	4	5	2	
	5.0	5	2	3	2								
	9.0	15	2	2	2	16	9		4	4	5	5	
1733	1.5	10	2	5	3	5	12	12	5	5	13	4	
	5.0	10	2	5	4								
	9.0	10	2	4	3	6	10	18	10	6	12	3	
1978	1.5	3	2	3	1	5	9		2	10	3	10	
	5.0	2	2	2	1								
	11.0	31	2	3	2	6	5		19	5	3	48	
1977	1.5	10	4	2	3	8	12	15		7	35	6	
	5.0	11	3	3	2								
	9.0	11	3	5	1	12	19	39		19	41	9	
1987	1.5	3	2	14	5	4	44	5	4	3	8	5	
	5.0	4	17	15	4	4	62	37	106	2	9		
1984	1.5	8	4	8	5	19	29	39	12	12	25	12	
	5.0	6	5	10	6	3							
	6.0	5	20	10	5	36	33	29	18		34		
1988	1.5					34	33	42	7	28	25	29	
	4.0					33	39	51	6	29	23	24	
1989	1.5					43	52	39	76	102	34	50	
1976	1.5	4	4	5	3	13	12	26		6	17	4	
	5.0	6	3	5	4								
	7.0	7	3	5	4	11	21	36		6	19	4	
1982	1.5	4	2	5	0.8								
	5.0	10	2	5	2								
	11.0	100	3	8	0.5								
1975	1.5	2	1	8	2	9	7	5	5	2	4	3	
	5.0	1	2	8	2								
	8.0	2	5	7	1	8	7	9	5	4	4	4	
1983	1.5	3	5	11	2	3	5		4	2	2	0.8	
	5.0	2	3	11	2								
	11.0	2	3	11	1	3	4		4	2	2	2	
1981	1.5	2	16	1	2	5	6	8	4	3	3	2	
	5.0	1	3	1	2								
	11.0	1	2	2	2	4	6	8	6	3	4	3	
1536	1.5	2	1	2	2	4		9	11	2	3		2
	5.0	3	3	2	3								
	6.0	2	5	2	13	2		9	3	2	2		2
1364	1.5	2	2	3	7	6	8	8	7	6	11		5
	5.0	3	5	3	9								
	6.0	3	4	4	9	8	9	8	9	6	9		6
1375	1.0	10	25	235	102	15	18	16	434	53	219		17
202	1.5	4	2	4	6	6	7	8	10	6	7		10
	5.0	5	4	3	6								
	9.0	2	5	3	8	7	8	8	6	7	7		17

CONDUCTIVITY

µS/cm

STATION NUMBER	DEPTH (m)	Aug. 19	Aug. 25	Sept. 2	Sept. 4	Sept. 8	Sept. 11	Sept. 15	Sept. 18	Sept. 22	Sept. 29	Oct. 2	Oct. 6
1872	1.5	320	310	325		325	335	320	330	325	340	335	340
	5.0										335	330	345
	10.0										340	330	335
1985	1.5										335	330	335
	4.0										340	330	335
1986	1.5										335	330	335
	5.0										335	330	335
	10.0										325	335	335
1419	1.5		455	435	385	435	395	370	370	360	440	440	380
	5.0										345	335	345
	6.0										340	335	340
1979	1.5		365	320	330	355	335	325	335	335		335	335
	5.0		315	320	340	365	335	330	340	330		335	335
	7.0		315	320	340	335	335	330	325	330		330	335
1980	1.5	340	315	320	360	325	335	325	530	325		335	330
	5.0	325	320	320	350	330	335	330	330	330		335	335
	9.0	325	315	320	335	335	335	340	330	325		330	335
1733	1.5	330	355	320	335	330	335	325	365	325		335	330
	5.0	325	335	320	335	330	335	325	340	335		335	330
	9.0	325	320	325	335	335	335	325	330	325		335	335
1978	1.5	325	315	320	330	325	330	325	330	325		350	335
	5.0	320	315	320	350	350	335	325	330	325		345	335
	11.0	330	320	325	335	335	335	330	330	325		330	335
1977	1.5	330	335	320	330	325		325	350	325		335	335
	5.0	320	340	320	345	325		325	330	325		335	335
	9.0	330	320	325	335	335		325	330	325		335	335
1987	1.5											335	335
	5.0											335	335
	11.0												
1984	1.5		325	320	335	325		335	340	330		335	335
	5.0												335
	6.0											330	335
1976	1.5	330	345	320	330	335		330	340	335		335	335
	5.0	330	335	320	330	325		335	345	335		330	335
	7.0	335	330	325	335	325		335	340	330		335	335
1982	1.5	335	345	320	325	330		325	340	325		340	335
	5.0	325	325	320	335	325		325	335	325		335	335
	11.0	335	315	325	340	335		325	330				335
1975	1.5	330	325	320	335	335		330	335	330		345	335
	5.0	325	320	320	330	345		325	340	325		340	335
	8.0	325	315	325	330	330			335	325		345	335
1983	1.5	320	315	325	330	325		325	335	325		330	335
	5.0	320	320	320	330	325		325	330	325		330	335
	11.0	325	315	325	335	335		330	330	325		330	335
1981	1.5	325	315	315	330	325		325	335	330		340	335
	5.0	330	315	315	335	325		325	335	325		345	335
	11.0	335	315	320	335	335		335	335	325		335	335
1536	1.5		315	320	325	315		330	335	330	330	335	
	5.0										325	335	
	6.0										335	330	
1364	1.5	330	370	350	333	325	340	345	340	340	355	345	
	5.0										350	345	
	6.0										345	340	
1375	1.0	900	900	620	920	580	550	520	610	890	530	940	
202	1.5	330	325	335	345	340	345	335	335	340	345	340	
	5.0										340	340	
	9.0										340	345	

CONDUCTIVITY cont.

µS/cm

STATION NUMBER	DEPTH (m)	Oct. 9	Oct. 14	Oct. 17	Oct. 20	Oct. 28	Nov. 5	Nov. 7	Nov. 13	Nov. 14	Nov. 20	Nov. 24	Nov. 25
1872	1.5	345	380	330	335	335	335		335	340	335	335	
	5.0	345	380	330	335								
	10.0	340	370	330	335	335	335		335	335	335	335	
1985	1.5	345	380	330	340	335	340		350	345	335	340	
	4.0	350	375	335	340	335	335		350	345	340	340	
1986	1.5	335	370	330	335	335	335		335	335	335	340	
	5.0	335	370	335	335								
	10.0	335	370	335	335	335	335		335	335	335	335	
1419	1.5	420	375	440	335	335	350	340	500	460	350	340	
	5.0	430	370	345	335								
	6.0	350	370	340	335	335	345	340	365	380	350	340	
1979	1.5	335	370	380	335	335	340	340	350	340	355	345	
	5.0	330	370	390	335								
	7.0	330	370	390	335	335	340	345	350	345	355	345	
1980	1.5	325	370	335	335	335	340		345	345	335	340	
	5.0	335	370	335	330								
	9.0	335	370	335	335	335	340		335	345	335	345	
1733	1.5	335	370	350	335	335	345	345	350	350	350	345	
	5.0	335	370	350	335								
	9.0	335	370	350	335	335	340	345	360	355	350	340	
1978	1.5	330	370	335	335	340	335		355	340	335	345	
	5.0	330	370	335	335								
	11.0	335	370	340	335	335	340		350	335	335	345	
1977	1.5	340	370	335	335	335	340	345		350	350	345	
	5.0	340	370	340	335								
	9.0	335	370	345	335	335	340	345		345	350	345	
1987	1.5	325	370	345	335	335	345	340	340	340	355	345	
	5.0	335	370	350	335	335	345	345	350	335	350		
1984	1.5	335	370	340	335	340	345	350	355	350	355	350	
	5.0	335	370	345	335								
	6.0	335	370	340	335	340	345	350	355				
1988	1.5					345	350	350	355	350	355	355	
	4.0					345	350	350	360	350	355	360	
1989	1.5					345	350	350	355	355	360	365	
1976	1.5	335	370	345	335	335	340	350		345	350	350	
	5.0	335	370	345	335								
	7.0	335	370	345	335	335	340	350		345	350	350	
1982	1.5	335	370	345	335								
	5.0	335	370	345	335								
	11.0	335	365	345	335								
1975	1.5	335	365	340	335	335	340	345	355	340	345	345	
	5.0	335	365	340	335								
	8.0	330	360	340	335	340	340	345	350	340	340	345	
1983	1.5	335	365	340	335	335	340		340	340	335	335	
	5.0	330	360	340	335								
	11.0	335	365	340	335	340	340		340	335	335	335	
1981	1.5	335	360	335	340	345	355	360	345	345	340	340	
	5.0	335	355	335	335								
	11.0	335	355	335	335	340	345	350	365	335	340	345	
1536	1.5	340	350	340	335	340		350	335	340	340		345
	5.0	340	355	335	335								
	6.0	340	355	340	335	335		345	335	340	340		345
1364	1.5	360	375	360	355	360	365	380	375	385	385		365
	5.0	360	370	360	355								
	6.0	360	370	360	350	360	365	375	375	385	380		365
1375	1.0	600	1020	800	800	580	880	850	355	880	730		1230
202	1.5	350	375	355	355	360	365	370	375	375	380		375
	5.0	350	370	350	355								
	9.0	335	370	345	355	360	365	370	370	375	380		380

WATER TEMPERATURE °C

Station Number	DEPTH (m)	Aug. 19	Aug. 25	Sept. 2	Sept. 4	Sept. 8	Sept. 11	Sept. 15	Sept. 18	Sept. 22	Sept. 29	Oct. 2	Oct. 6
1872	1.5	19.2	21.2	21.8	20.2	17.9	9.3	17.0	13.8	16.5	8.2	11.5	9.5
	5.0										8.0	11.1	9.5
	10.0										8.0	10.9	8.5
1985	1.5										8.0	12.0	9.7
	4.0										8.0	11.4	8.9
1986	1.5										8.0	11.9	10.1
	5.0										7.9	11.5	10.1
	10.0										7.9	10.5	9.2
1419	1.5	19.1	22.0	21.3	19.2	15.8	12.2	15.9	14.9	16.8	11.0	13.1	12.8
	5.0										8.5	11.0	10.5
	6.0										8.2	10.9	10.0
1979	1.5		21.2	20.9	20.1	16.1	7.9	16.2	14.2	16.7		11.1	10.0
	5.0		20.2	19.8	19.1	14.2		15.9	14.2			10.8	9.9
	7.0		20.0	19.6	12.2	14.8		15.8	14.2			10.5	9.8
1980	1.5	19.2	20.9	21.1	19.9	16.2	10.0	16.0	13.8	16.6		11.8	10.1
	5.0	19.0	20.5	19.8	19.8	13.5		14.9	13.9	16.3		10.4	10.0
	9.0	18.5	20.2	19.2	12.5	11.0		14.9	13.8	16.1		10.2	9.8
1733	1.5	19.5	20.9	21.0	19.7	16.1	10.0	15.8	14.2	16.5		11.2	10.2
	5.0	18.9	20.5	20.7	19.7	14.9		15.8	14.1	16.2		10.5	10.0
	9.0	15.2	20.1	19.2	10.0	12.2		15.7	13.9	15.8		10.2	9.8
1978	1.5	19.2	21.0	21.0	20.0	16.2	11.5	16.7	13.5	16.7		11.1	10.4
	5.0	18.9	20.1	20.2	17.2	15.3		16.0	13.5	16.5		12.0	10.2
	11.0	16.8	19.2	19.2	7.0	10.1		14.3	13.5	15.8		10.0	9.5
1977	1.5	19.3	20.9	21.1	20.0	16.5		16.0	14.0	16.5		12.0	10.7
	5.0	19.0	20.3	20.2	19.0	15.0		15.5	13.9	16.4		12.0	10.2
	9.0	17.2	19.9	19.7	11.0	11.8		15.5	13.7	16.0		11.5	10.2
1987	1.5											12.8	10.2
	5.0											12.0	10.0
	11.0											12.0	
1984	1.5	19.2	21.0	21.0	20.6	16.2		14.2	13.4	16.8		13.0	10.3
	5.0											11.6	9.5
	6.0											11.2	9.3
1976	1.5	19.2	20.8	21.3	20.0	16.5		15.0	13.8	16.8		12.2	10.1
	5.0	18.8	20.8	20.2	19.7	15.6		14.3	13.8	16.0		11.5	10.0
	7.0	18.0	20.4	20.0	17.1	14.1		13.8	13.8	16.0		11.0	9.8
1982	1.5	19.9	20.8	21.2	20.2	16.9		16.2	13.9	16.7		12.5	10.2
	5.0	18.9	20.2	20.3	17.0	15.0		15.8	13.9	16.2		11.5	10.0
	11.0	17.2	19.9	19.5	10.0	11.0		15.0	13.6	16.0		10.9	9.7
1975	1.5	19.8	20.8	21.0	20.1	17.1		15.8	13.9	16.2		12.1	10.1
	5.0	19.2	20.1	20.5	20.1	15.6		15.1	13.9	16.0		12.2	10.0
	8.0	18.9	20.0	20.1	14.9	13.2		15.1	13.8	15.9		12.0	9.8
1983	1.5	20.0	20.8	21.2	20.2	18.9		16.1	13.7	16.7		12.3	10.2
	5.0	18.8	20.2	20.5	18.1	15.8		15.8	13.7	16.1		12.7	10.2
	11.0	17.8	20.0	19.1	9.5	11.5		14.8	13.6	15.7		11.0	9.2
1981	1.5	19.5	21.0	20.1	20.1	19.8		16.0	13.9	16.5		14.0	12.0
	5.0	19.0	20.2	21.0	20.0	15.4		15.4	13.9	16.0		12.3	11.5
	11.0	17.0	20.0	18.9	9.1	12.2		15.5	13.8	15.8		11.5	10.3
1536	1.5		20.3	21.9	21.8	19.4			13.9		14.5	13.9	
	5.0										13.9	13.8	
	6.0											13.7	
1364	1.5	19.9	19.8	22.2	22.4	20.0	14.9	13.8	14.2	16.1	14.4	17.7	
	5.0										14.2	17.5	
	6.0										14.2	17.2	
1375	1.0	23.9	22.4	22.5	22.2	21.2	12.0	16.2	15.2	20.1	14.0	21.2	
202	1.5	20.0	20.5	22.2	22.2	20.2	16.2	12.4	15.0	16.1	13.2	18.0	
	5.0										12.0	18.0	
	9.0										11.0	17.9	

WATER TEMPERATURE cont.

°C

STATION NUMBER	DEPTH (m)	Oct. 9	Oct. 14	Oct. 20	Oct. 28	Nov. 5	Nov. 7	Nov. 13	Nov. 14	Nov. 20	Nov. 24	Nov. 25
1872	1.5	8.7	9.7	9.2	7.5	7.5		7.0	7.2	6.6	7.0	
	5.0	8.2	9.4	9.2								
	10.0	8.0	8.2	9.2	7.3	7.4		7.0	7.2	6.6	7.0	
1985	1.5	8.2	9.8	9.5	7.6	7.3		7.3	7.2	6.2	7.0	
	4.0	8.0	9.4	9.5	7.6	7.3		7.1	7.2	6.2	7.0	
1986	1.5	7.2	8.9	9.5	7.5	7.2		7.0	7.2	6.2	7.0	
	5.0	7.2	8.9	9.5								
	10.0	7.2	8.2	9.5	7.4	7.1		7.0	7.2	6.2	7.0	
1419	1.5	9.0	8.5	9.6	7.4	7.6	7.4	10.0	9.8	6.2	7.0	
	5.0	7.5	8.5	9.5								
	6.0	7.5	8.5	9.5	7.5	7.5	7.7	7.0	7.4	6.2	7.0	
1979	1.5	8.0	9.3	9.5	7.7	7.5	7.7	7.2	7.2	6.2	7.0	
	5.0	7.9	8.9	9.5								
	7.0	7.7	8.9	9.5	7.5	7.5	7.9	7.0	7.2	6.2	7.0	
1980	1.5	7.5	9.2	9.5	8.0	7.8		7.0	7.2	6.2	7.0	
	5.0	7.4	9.1	9.5								
	9.0	7.4	9.0	9.4	7.9	7.8		7.0	7.2	6.2	7.0	
1733	1.5	7.9	9.0	9.5	7.8	7.8	7.8	7.1	7.2	6.2	7.0	
	5.0	7.8	9.0	9.5								
	9.0	7.7	9.0	9.5	7.6	7.8	7.9	7.1	7.2	6.2	7.0	
1978	1.5	7.6	9.2	9.5	7.9	7.5		7.1	7.2	6.5	7.0	
	5.0	7.2	9.2	9.2								
	11.0	7.2	9.0	9.0	7.8	7.2		7.1	7.2	6.2	7.0	
1977	1.5	8.2	9.3	9.2	8.0	7.9	7.8	7.2	7.2	6.3	7.0	
	5.0	8.1	9.2	9.1								
	9.0	7.8	9.1	9.0	7.9	7.9	7.7	7.2	7.2	6.3	7.0	
1987	1.5	8.1	9.6	9.6	8.0	7.8	7.2	7.1	7.2	6.2	7.0	
	5.0	8.0	9.3	9.4	8.0	7.5	7.3	7.1	7.2	6.2		
1984	1.5	9.2	9.0	10.0	8.2	8.0	8.0	6.9	7.1	6.0		
	5.0	8.1	9.0	9.5								
	6.0	8.1	9.0	9.4	8.2	8.0	8.0	6.9				
1988	1.5				8.0	8.1	8.0	6.8	7.0	5.5	6.1	
	4.0				8.0	8.2	8.0	6.8	7.0	5.5	6.1	
1989	1.5				8.0	8.2	8.0	6.9	7.0	5.6	6.1	
1976	1.5	8.2	9.2	9.5	8.1	7.8	8.0	7.1	7.2	6.1	7.0	
	5.0	8.2	9.2	9.4								
	7.0	8.2	9.0	9.4	8.0	7.9	8.0	7.0	7.2	6.1	7.0	
1982	1.5	8.6	9.5	9.5								
	5.0	8.2	9.3	9.2								
	11.0	7.9	9.1	9.0								
1975	1.5	9.0	9.0	9.2	8.0	7.8	7.9	7.1	7.2	6.7	7.0	
	5.0	8.2	8.5	9.1								
	8.0	8.0	8.5	9.0	8.0	7.7	7.3	7.0	7.2	6.5	7.0	
1983	1.5	9.0	9.2	9.1	8.2	7.5		7.0	7.2	6.7	7.0	
	5.0	8.1	9.1	9.0								
	11.0	7.8	8.3	9.0	7.9	7.4		7.0	7.2	6.5	7.0	
1981	1.5	8.7	8.9	9.5	8.5	8.2	8.2	7.2	7.1	6.5	7.0	
	5.0	8.2	8.2	9.0								
	11.0	7.7	7.8	8.8	8.5	8.0	7.9	7.2	7.1	6.5	7.0	
1536	1.5	11.1	9.1	9.0	8.6		8.0	7.0	7.2	6.8		6.9
	5.0	10.0	9.0	9.0								
	6.0	9.8	9.0	9.0	8.6		8.0	7.0	7.2	6.8		6.9
1364	1.5	12.5	11.5	11.0	9.2	8.7	8.6	7.5	7.8	7.2		7.6
	5.0	12.2	11.2	11.0								
	6.0	12.0	11.2	10.9	9.1	8.7	8.6	7.3	7.8	7.2		7.6
1375	1.0	15.0	12.3	12.4	10.0	11.5	10.2	8.2	10.0	7.1		8.2
202	1.5	13.8	11.0	11.0	9.5	9.8	9.7	8.6	8.5	6.0		7.5
	5.0	13.2	10.8	11.0								
	9.0	8.6	10.7	11.0	9.5	9.8	9.4	8.2	8.5	6.0		7.5

DISSOLVED OXYGEN

ppm

Station Number	Depth (m)	Aug. 19	Aug. 25	Sept. 2	Sept. 4	Sept. 8	Sept. 11	Sept. 15	Sept. 18	Sept. 22	Sept. 29	Oct. 2	Oct. 6
1872	1.5	10.0	9.8	7.9	8.8	10.9	12.4	12.3	10.6	12.3	13.2	10.4	10.9
	5.0										13.0	10.4	10.7
	10.0										13.1	10.3	10.5
1985	1.5										13.3	10.5	11.2
	4.0										13.1	10.4	10.7
1986	1.5										13.0	10.5	10.6
	5.0										13.0	10.5	10.7
	10.0										13.0	10.3	10.7
1419	1.5	8.1	6.9	6.8	7.8	9.5	10.8	11.8	9.9	12.0	12.8	9.2	9.5
	5.0										13.1	10.1	10.3
	6.0										13.2	10.4	10.3
1979	1.5		8.2	6.9	8.2	10.4	13.0	11.9	10.6	12.1		10.4	10.2
	5.0		8.8	7.2	8.3	10.3		12.3	10.4			10.4	10.5
	7.0		8.8	6.8	8.4	10.2		12.3	10.4			10.4	10.6
1980	1.5	9.8	9.4	6.8	9.2	10.4	12.3	12.3	10.0	12.2		10.5	10.4
	5.0	9.8	9.1	6.8	8.9	10.8		12.8	9.8	12.3		10.3	10.6
	9.0	9.8	9.0	6.8	8.8	10.1		12.8	9.7	11.8		10.3	10.6
1733	1.5	9.4	8.7	7.2	9.4	11.0	12.5	12.5	9.7	12.2		10.4	10.3
	5.0	9.9	8.7	7.2	8.6	10.1		12.6	9.4	12.1		10.4	10.6
	9.0	8.6	9.0	6.7	10.0	11.2		12.5	9.4	10.4		10.3	10.6
1978	1.5	9.8	8.8	7.7	9.7	10.9	12.0	12.1	9.9	12.2		10.4	10.6
	5.0	9.8	8.8	7.4	8.6	11.0		12.7	9.8	12.2		10.5	10.7
	11.0	8.8	8.4	6.9	11.2	11.6		13.1	9.8	11.2		10.3	10.7
1977	1.5	9.2	8.9	7.3	9.6	10.9		12.2	9.7	12.1		10.6	10.3
	5.0	9.9	8.7	7.0	8.3	11.3		12.2	9.8	12.2		10.7	10.5
	9.0	8.8	8.6	7.0	9.7	11.3		12.2	10.0	11.8		10.7	10.7
1987	1.5											10.3	10.2
	5.0											10.4	10.7
	11.0											10.4	
1984	1.5	9.0	8.8	7.2	9.7	10.9		12.7	9.5	12.2		10.4	10.2
	5.0											10.3	10.7
	6.0											10.3	10.4
1976	1.5	9.4	8.6	7.7	9.3	10.5		12.5	10.0	11.8		10.6	10.7
	5.0	9.4	8.8	6.6	9.0	11.1		12.7	10.1	11.3		10.3	10.7
	7.0	9.2	8.8	6.6	8.7	11.2		12.9	10.1	11.4		10.3	10.8
1982	1.5	9.6	8.7	7.9	9.9	10.8		12.3	10.5	12.2		10.1	10.5
	5.0	9.7	8.7	7.3	8.5	11.1		12.7	10.5	12.5		10.1	10.7
	11.0	9.2	8.6	7.0	10.1	11.6		12.8	10.4	11.8		10.5	10.7
1975	1.5	9.4	8.9	7.7	9.7	11.3		11.8	10.1	11.9		10.2	10.6
	5.0	9.8	8.8	7.2	9.2	11.6		12.2	10.3	12.1		10.8	10.7
	8.0	9.6	1.7	7.2	9.3	11.3		12.3	10.3	11.7		9.9	10.8
1983	1.5	9.9	9.1	7.9	9.9	11.0		12.0	10.2	12.2		10.6	10.7
	5.0	10.2	8.9	7.4	8.9	11.6		12.4	10.5	12.2		11.0	10.8
	11.0	9.2	8.6	7.0	10.6	11.7		12.6	10.5	11.5		10.7	10.8
1981	1.5	9.8	8.9	7.9	9.7	10.4		12.2	10.4	12.1		10.8	10.8
	5.0	9.8	8.8	7.6	9.5	11.0		12.7	10.4	12.1		10.0	10.9
	11.0	9.2	8.5	6.9	9.1	11.2		12.7	10.6	11.7		9.8	10.9
1536	1.5		8.9	8.3	10.6	11.3			10.7		13.0	7.3	
	5.0										12.9	6.5	
	6.0											5.8	
1364	1.5	10.8	8.9	7.0	9.9	11.7	12.1	13.6	10.8	3.9	12.5	11.0	
	5.0										12.5	10.8	
	6.0										12.3	9.0	
1375	1.0	6.4	6.8		4.4	6.2	7.9	10.5	8.0	4.2	10.0	2.6	
202	1.5	9.8	9.9	7.8	9.0	9.9	12.8	13.4	9.9	13.5	12.5	10.1	
	5.0										12.6	9.5	
	9.0										12.6	9.3	

DISSOLVED OXYGEN cont.

ppm

Station Number	Depth (m)	Oct. 9	Oct. 14	Oct. 20	Oct. 28	Nov. 5	Nov. 7	Nov. 13	Nov. 14	Nov. 20	Nov. 24	Nov. 25
1872	1.5	10.9	10.7	10.5	11.1	11.4		11.4	11.5	11.3	11.2	
	5.0	10.9	10.7	10.7								
	10.0	11.0	10.6	10.6	11.1	11.3		11.4	11.4	11.3	11.3	
1985	1.5	9.9	10.8	10.6	11.3	11.2		11.4	11.7	11.6	11.6	
	4.0	11.0	10.6	10.6	11.2	11.2		11.4	11.6	11.6	11.6	
1986	1.5	11.0	10.8	10.7	11.4	11.2		11.3	11.5	11.2	11.5	
	5.0	11.1	10.5	10.6								
	10.0	11.1	10.4	10.6	11.2	11.1		11.4	11.5	11.2	11.5	
1419	1.5	10.2	10.4	10.6	11.5	11.4	11.4	9.8	10.4	12.0	11.7	
	5.0	10.8	10.3	10.6								
	6.0	10.9	10.3	10.5	11.2	11.2	11.4	11.2	11.3	12.2	11.7	
1979	1.5	10.2	10.8	10.8	11.0	11.3	11.3	11.2	11.7	11.9	11.7	
	5.0	11.0	10.6	10.7								
	7.0	11.0	10.3	10.6	11.0	11.1	11.4	11.4	11.7	12.0	11.7	
1980	1.5	10.8	10.5	10.4	11.3	11.2		11.3	11.7	11.7	11.7	
	5.0	10.9	10.4	10.6								
	9.0	10.9	10.3	10.6	11.0	11.0		11.3	11.7	11.7	11.7	
1733	1.5	10.9	10.6	10.8	11.2	11.1	11.2	11.2	11.7	11.7	11.7	
	5.0	11.1	10.3	10.7								
	9.0	11.1	10.3	10.6	11.0	11.1	11.2	11.4	11.7	11.8	11.7	
1978	1.5	10.7	11.0	10.7	11.3	11.0		11.4	11.7	11.6	11.5	
	5.0	10.9	10.6	10.6								
	11.0	11.0	10.4	10.6	11.0	11.1		11.2	11.7	11.7	11.5	
1977	1.5	10.9	10.8	10.6	11.0	11.2	11.1	11.3	11.7	11.7	11.5	
	5.0	11.0	10.7	10.5								
	9.0	11.2	10.6	10.4	10.9	11.2	11.2	11.1	11.7	11.8	11.5	
1987	1.5	10.5	10.7	10.8	11.2	11.4	11.4	11.3	11.7	11.6	11.5	
	5.0	10.6	10.6	10.7	11.1	11.2	11.1	11.4	11.7	11.6		
1984	1.5	10.2	11.0	10.8	11.0	11.2	11.2	10.8	11.5	12.0		
	5.0	10.7	11.2	10.7								
	6.0	10.6	11.2	10.7	11.0	11.0	11.3	11.2				
1988	1.5				11.1	10.0	11.1	11.3	11.6	11.8	11.4	
	4.0				11.1	10.8	11.1	11.3	11.5	12.0	11.4	
1989	1.5				11.2	10.7	11.3	10.8	11.6	11.6	11.3	
1976	1.5	10.7	10.8	10.5	11.4	10.8	11.3	11.4	11.6	11.9	11.6	
	5.0	10.8	10.7	10.5								
	7.0	10.8	10.6	10.5	11.0	10.8	11.4	11.3	11.6	12.0	11.6	
1982	1.5	10.6	10.7	10.8								
	5.0	10.7	10.6	10.5								
	11.0	10.8	10.6	10.5								
1975	1.5	10.5	10.9	10.8	11.3	10.7	11.3	11.4	11.7	11.6	11.6	
	5.0	10.5	10.7	10.4								
	8.0	10.5	10.7	10.4	11.0	10.8	11.2	11.1	11.7	11.7	11.6	
1983	1.5	10.6	10.8	10.8	11.2	10.8		11.5	11.6	11.3	11.4	
	5.0	10.6	10.7	10.6								
	11.0	10.5	10.6	10.4	11.0	10.7		11.3	11.6	11.4	11.4	
1981	1.5	10.5	10.8	10.8	11.0	10.8	11.0	11.7	11.7	11.4	11.7	
	5.0	10.5	10.5	10.4								
	11.0	10.6	10.4	10.3	10.9	11.0	11.1	11.4	11.7	11.6	11.7	
1536	1.5	10.8	10.9	10.4	11.3		11.2	11.3	11.6	11.4		12.5
	5.0	10.6	10.9	10.3								
	6.0	10.6	10.8	10.3	11.3		11.2	11.3	11.6	11.4		13.0
1364	1.5			12.0	11.2	10.5	10.8	11.1	11.0	11.4		12.2
	5.0			11.5								
	6.0			10.5	11.4	10.5	10.7	11.2	11.0	11.4		12.5
1375	1.0	8.0	8.4	8.7	10.0	8.0	9.3	10.2	9.5	10.5		10.3
202	1.5	10.8	11.2	10.9	10.7	10.9	11.2	11.4	11.4	11.0		11.6
	5.0	10.9	11.3	10.8								
	9.0	10.4	11.0	10.6	10.7	10.8	11.0	11.4	11.4	10.9		11.6

TURBIDITY

FTU

DATE		1538	1384	1375	202	1987	1984	1419	1872
AUG.	19	-	1.80	11.00	1.90	-	5.90	5.60	2.60
	25	1.80	2.00	18.00	1.80	-	3.80	3.30	1.30
SEP.	2	0.90	2.00	14.00	1.50	-	5.50	2.50	1.30
	4	1.00	1.10	13.00	1.40	-	1.20	1.50	0.70
	8	1.00	1.30	14.00	1.30	-	1.90	1.60	-
	11	-	0.95	10.00	1.30	-	-	1.70	1.00
	15	0.70	1.00	8.00	1.00	-	1.50	1.30	0.55
	18	1.60	1.00	4.60	1.10	-	6.30	1.70	0.70
	22	1.30	1.30	4.10	1.20	-	2.70	1.60	1.00
	29	0.80	0.73	5.50	2.00	-	-	3.70	0.51
OCT.	2	1.00	1.70	11.90	0.75	11.00	3.90	0.90	1.1
	6	-	-	-	-	18.00	2.00	1.50	1.40
	9	0.95	1.50	1.60	1.30	1.30	5.50	1.80	3.10
	14	1.10	0.70	5.00	1.20	1.00	3.50	0.90	1.60
	17	1.40	1.60	88.00	1.40	7.30	4.00	1.70	0.60
	20	1.00	3.80	33.00	2.00	3.20	3.60	1.40	0.80
	28	1.80	3.70	7.10	3.10	1.80	14.00	2.10	1.50
	5	-	4.30	8.50	3.50	31.00	20.00	4.50	0.75
NOV.	7	3.0	3.60	5.40	2.3	1.80	27.00	3.00	-
	13	1.00	3.10	90.00	1.00	1.30	6.00	2.50	1.00
	14	1.00	3.00	25.00	2.90	1.50	7.10	2.30	1.00
	20	1.20	4.90	75.00	2.40	3.40	18.00	4.40	0.75
	24	-	-	-	-	2.50	6.60	1.40	0.70
	25	1.10	2.80	6.80	3.80	-	-	-	-

SUSPENDED SOLIDS

mg/L

DATE		1538	1384	1375	202	1987	1984	1419	1872
AUG.	19	-	2.	19.	3.	-	9.	8.	3.
	25	3.	4.	28.	2.	-	4.	7.	1.
SEP.	2	1.	4.	37.	4.	-	9.	5.	1.
	4	2.	3.	35.	4.	-	1.	4.	-
	8	1.	5.	4.	3.	-	5.	7.	1.
	11	-	2.	41.	2.	-	-	4.7	0.4
	15	9.	6.	5.	2.	-	9.	5.	1.
	18	3.	3.	38.	3.	-	10.	6.	1.
	22	2.	2.	11.	2.	-	4.	3.	2.
	29	13.	3.	15.	3.	-	-	5.	5.
OCT.	2	3.	3.	53.	3.	18.	13.	4.	1.
	6	-	-	-	-	34.	5.	3.	1.
	9	2.	2.	10.	4.	3.	8.	6.	5.
	14	1.	2.	25.	2.	2.	6.	2.	1.
	17	2.	1.	235.	4.	14.	8.	4.	1.
	20	2.	7.	102.	6.	5.	5.	2.	2.
	28	4.	6.	15.	6.	6.	10.	3.	1.
NOV.	5	-	8.	18.	7.	44.	28.	6.	2.
	7	9.	8.	16.	8.	5.	38.	7.	-
	13	11.	7.	434.	10.	8.	12.	8.	2.
	14	2.	6.	53.	6.	3.	12.	6.	1.
	20	3.	11.	219.	7.	8.	25.	9.	0.9
	24	-	-	-	-	5.	12.	2.	0.6
	25	2.	5.	17.	10.	-	-	-	-

CONDUCTIVITY

µS/cm

DATE		1538	1384	1375	202	1987	1984	1419	1872
AUG.	19	-	330.	900.	330.	-	-	-	320.
	25	315.	370.	900.	325.	-	325.	455.	310.
SEP.	2	320.	350.	620.	335.	-	320.	435.	325.
	4	325.	333.	920.	345.	-	335.	385.	-
	8	315.	325.	580.	360.	-	325.	435.	325.
	11	-	340.	550.	345.	-	-	395.	335.
	15	330.	345.	520.	335.	-	335.	370.	320.
	18	335.	340.	610.	335.	-	340.	370.	330.
	22	330.	340.	890.	340.	-	330.	360.	325.
	29	330	355	530.	345.	-	-	440.	340.
OCT.	2	335.	345.	940.	340.	335.	335.	440.	335
	6	-	-	-	-	335.	335.	380.	340.
	9	340.	360.	600.	350.	325.	335.	420.	345.
	14	350.	375.	1020.	375.	370.	370.	375.	380.
	17	340.	360.	800.	355.	345.	340.	440.	330.
	20	335.	355.	800.	355.	335.	335.	335.	335.
	28	340.	360.	580.	360.	335.	340.	335.	335.
NOV.	5	-	365.	880.	365.	345.	345.	350.	335.
	7	350	380.	850.	370	340.	350	340	-
	13	335.	375.	355.	375.	340.	355.	500.	335.
	14	340.	385.	880.	375.	340.	350.	460.	340.
	20	340.	385.	730.	380.	355.	355.	350.	335.
	24	-	-	-	-	345.	350.	340.	335.
	25	345.	365.	1230.	375.	-	-	-	-

ALKALINITY

mg/L

DATE		1536	1364	1375	202	1987	1984	1419	1872
AUG.	19	-	95.	197.	95.	-	95.	118.	93.
	25	90.	194.	92.	95.	-	91.	114.	88.
SEP.	2	89.	93.	139.	92.	-	88.	110.	90.
	4	88.	89.	138.	92.	-	89.	99.	-
	8	90.	91.	136.	93.	-	91.	118.	94.
	11	-	96.	177.	96.	-	-	104.	97.
	15	93.	98.	128.	97.	-	95.	101.	93.
	18	95.	96.	137.	95.	-	96.	99.	95.
	22	92.	94.	176.	95.	-	92.	87.	92.
	29	92.	97.	133.	95.	-	-	120.	96.
OCT.	2	96.	97.	209.	95.	96.	97.	115.	94.
	6	-	-	-	-	95.	95.	104.	96.
	9	96.	98.	143.	97.	96.	96.	110.	97.
	14	96.	99.	224.	97.	95.	96.	95.	97.
	17	96.	101.	238.	100.	98.	96.	116.	95.
	20	96.	98.	193.	98.	96.	96.	96.	96.
	28	95.	97.	145.	98.	95.	96.	95.	95.
NOV.	5	-	101.	191.	100.	99.	98.	97.	94.
	7	98.	102.	179.	100.	96.	99.	96.	-
	13	95.	102.	219.	101.	95.	98.	118.	95.
	14	95.	105.	152.	102.	96.	99.	117.	94.
	20	96.	102.	137.	102.	99.	98.	97.	95.
	24	-	-	-	-	96.	97.	95.	94.
	25	96.	100.	190.	101.	-	-	-	-

TOTAL PHOSPHORUS

mg/L

DATE		1536	1364	1375	202	1987	1984	1419	1872
AUG.	19	-	0.020	0.282	0.027	-	0.037	0.178	0.041
	25	0.031	0.037	0.275	0.038	-	0.031	0.331	0.021
SEP.	2	0.042	0.073	0.115	0.075	-	0.036	0.310	0.043
	4	0.018	0.031	0.308	0.053	-	0.027	0.096	0.026
	8	0.016	0.034	0.335	0.029	-	0.022	0.385	0.019
	11	-	0.027	0.450	0.031	-	-	0.095	0.018
	15	0.022	0.021	0.177	0.016	-	0.023	0.098	0.012
	18	0.022	0.029	0.265	0.039	-	0.050	0.078	0.015
	22	0.027	0.032	0.605	0.038	-	0.027	0.086	0.018
	29	0.015	0.044	0.230	0.023	-	-	0.179	0.021
OCT.	2	0.009	0.021	0.525	0.026	0.010	0.022	0.305	0.015
	6	-	-	-	-	0.055	0.015	0.085	0.023
	9	0.018	0.033	0.270	0.029	0.014	0.019	0.142	0.031
	14	0.016	0.033	0.600	0.027	0.015	0.018	0.011	0.047
	17	0.030	0.037	0.578	0.024	0.057	0.037	0.252	0.033
	20	0.014	0.038	0.388	0.029	0.015	0.018	0.013	0.014
	28	0.022	0.056		0.041	0.022	0.014	0.018	0.015
NOV.	5	-	0.039	0.370	0.036	0.085	0.042	0.035	0.012
	7	0.033	0.042	0.315	0.050	0.019	0.048	0.021	-
	13	0.014	0.041	0.385	0.042	0.018	0.041	0.295	0.014
	14	0.016	0.042	0.268	0.037	0.020	0.032	0.315	0.042
	20	0.021	0.045	0.498	0.045	0.041	0.063	0.030	0.022
	24	-	-	-	-	0.027	0.032	0.021	0.018
	25	0.018	0.031	0.350	0.037	-	-	-	-

FILTERED REACTIVE PHOSPHATE

mg/L

DATE		1536	1364	1375	202	1987	1984	1419	1872
AUG.	19	-	-	-	-	-	-	-	-
	25	0.005	0.010	0.150	0.005	-	0.009	0.150	<0.001
SEP.	2	0.002	0.022	0.008	0.026	-	0.007	0.185	0.016
	4	0.001	0.007	0.033	0.025	-	0.007	0.049	0.006
	8	0.003	0.006	0.095	0.004	-	0.007	0.060	0.002
	11	-	0.002	0.265	0.006	-	-	0.048	0.009
	15	0.003	0.001	0.118	0.001	-	0.001	0.050	0.003
	18	0.004	0.005	0.168	0.004	-	0.021	0.032	0.002
	22	0.007	0.007	0.290	0.009	-	0.006	0.027	0.003
	29	0.004	0.006	0.120	0.004	-	-	0.060	0.006
OCT.	2	0.007	0.006	0.280	0.006	0.003	0.005	0.045	0.003
	6	-	-	-	-	0.010	0.004	0.043	0.004
	9	<0.001	<0.001	0.175	<0.001	<0.001	<0.001	0.054	0.005
	14	0.004	0.001	0.350	<0.001	<0.001	0.001	0.003	0.030
	17	0.005	0.002	0.220	0.005	0.018	0.001	0.150	0.002
	20	0.003	0.008	0.190	0.004	0.002	0.003	0.002	0.004
	28	0.004	0.013	0.140	0.008	0.006	0.011	0.008	0.006
NOV.	5	-	0.020	0.240	0.028	0.018	0.019	0.010	0.009
	7	0.011	0.017	0.220	0.015	0.010	0.013	0.011	-
	13	0.010	0.008	0.220	0.008	0.008	0.010	0.150	0.009
	14	0.007	0.016	0.078	0.006	0.007	0.008	0.300	0.005
	20	0.008	0.011	0.037	0.009	0.010	0.013	0.011	0.010
	24	-	-	-	-	0.003	<0.001	0.005	0.008
	25	0.002	0.006	0.230	0.005	-	-	-	-

TOTAL KJELDAHL NITROGEN[1] mg/L

DATE		1536	1364	1375	202	1987	1984	1419	1872
AUG.	19	-	0.320	3.710	0.380	-	0.740	4.980	0.320
	25	0.380	0.460	3.060	0.460	-	0.700	8.300	0.310
SEP.	2	0.500	0.690	1.120	0.670	-	0.440	4.900	0.650
	4	0.300	0.360	2.580	0.470	-	0.330	1.540	0.370
	8	0.370	0.550	0.950	0.410	-	0.530	4.500	0.560
	11	-	0.450	5.100	0.500	-	-	2.300	0.370
	15	0.240	0.360	1.680	0.280	-	0.450	2.600	0.260
	18	0.440	0.400	2.780	0.430	-	0.740	1.980	0.270
	22	0.590	0.440	6.620	0.430	-	0.580	2.330	0.330
	29	0.240	0.480	2.200	0.300	-	-	5.650	0.380
OCT.	2	0.230	0.330	4.720	0.360	0.310	0.390	4.260	0.230
	6	-	-	-	-	0.250	0.240	2.200	0.430
	9	0.250	0.480	2.460	0.280	0.240	0.220	2.870	0.550
	14	0.240	0.370	7.000	0.320	0.200	0.250	0.160	0.660
	17	0.490	0.490	4.280	0.320	0.750	0.650	4.280	0.260
	20	0.260	0.460	4.750	0.350	0.220	0.270	0.260	0.220
	28	0.290	0.530	2.090	0.470	0.220	0.120	0.190	0.210
NOV.	5	-	0.600	4.550	0.580	0.350	0.320	0.760	0.200
	7	0.460	0.730	2.550	0.600	0.320	0.480	0.280	-
	13	0.180	0.630	4.510	0.600	0.340	0.470	8.510	0.150
	14	0.220	0.740	2.000	0.570	0.300	0.430	5.410	0.380
	20	0.240	0.560	2.700	0.600	0.450	0.640	0.450	0.190
	24	-	-	-	-	0.330	0.380	0.280	0.170
	25	0.280	0.450	3.220	0.500	-	-	-	-

AMMONIA mg/L

DATE		1536	1364	1375	202	1987	1984	1419	1872
AUG.	19	-	0.019	2.550	0.048	-	0.401	3.700	0.011
	25	0.088	0.106	2.800	0.056	-	0.294	5.800	0.014
SEP.	2	0.072	0.206	0.318	0.206	-	0.092	3.450	0.330
	4	0.018	0.072	1.330	0.160	-	0.052	1.080	0.056
	8	0.020	0.028	0.620	0.066	-	0.112	1.080	0.032
	11	-	0.046	4.250	0.064	-	-	1.750	0.106
	15	0.036	0.052	0.183	0.042	-	0.162	2.250	0.010
	18	0.185	0.042	1.490	0.064	-	0.440	1.580	0.016
	22	0.220	0.036	5.200	0.040	-	0.288	1.760	0.012
	29	0.044	0.122	1.670	0.044	-	-	5.500	0.242
OCT.	2	0.018	0.004	3.400	0.010	0.084	0.098	1.680	0.182
	6	-	-	-	-	0.014	0.012	0.008	0.094
	9	0.026	0.046	1.750	0.040	0.006	0.010	2.450	0.290
	14	0.080	0.048	0.560	0.028	0.010	0.052	0.008	0.400
	17	0.220	0.130	2.660	0.030	0.460	0.330	3.640	0.032
	20	0.060	0.150	0.120	0.048	0.022	0.054	0.022	0.012
	28	0.072	0.214	1.520	0.142	0.042	0.086	0.022	0.012
NOV.	5	-	0.330	0.030	0.250	0.082	0.112	0.380	0.012
	7	0.216	0.390	2.050	0.254	0.058	0.216	0.058	-
	13	0.006	0.342	3.900	0.276	0.032	0.262	7.600	0.010
	14	0.014	0.346	0.760	0.212	0.030	0.180	4.700	0.050
	20	0.072	0.254	1.460	0.260	0.198	0.334	0.188	0.014
	24	-	-	-	-	0.078	0.126	0.040	0.006
	25	0.042	0.182	2.580	0.198	-	-	-	-

NITRATE & NITRITE mg/L

DATE		1536	1364	1375	202	1987	1984	1419	1872
AUG.	19	-	0.150	1.950	0.180	-	0.195	0.200	0.175
	25	0.100	0.195	1.900	0.125	-	0.120	0.120	0.050
SEP.	2	0.120	0.290	1.350	0.190	-	0.125	0.310	0.090
	4	0.130	0.170	1.050	0.230	-	0.175	0.210	0.190
	8	0.175	1.600	2.450	0.215	-	0.310	0.385	0.230
	11	-	0.330	1.950	0.265	-	-	0.410	0.400
	15	0.280	0.385	0.860	0.340	-	0.325	0.275	0.220
	18	0.300	0.320	1.600	0.295	-	0.305	0.280	0.255
	22	0.245	0.295	2.200	0.265	-	0.250	0.220	0.200
	29	0.260	0.340	0.990	0.330	-	-	0.360	0.415
OCT.	2	0.340	0.315	1.900	0.305	0.344	0.345	0.350	0.385
	6	-	-	-	-	0.360	0.345	0.175	0.410
	9	0.380	0.345	0.845	0.330	0.390	0.360	0.370	0.420
	14	0.380	0.370	1.800	0.340	0.370	0.385	0.375	0.350
	17	0.310	0.380	2.100	0.345	0.335	0.330	0.305	0.305
	20	0.380	0.400	1.400	0.375	0.360	0.370	0.360	0.385
	28	0.365	0.430	1.100	0.400	0.380	0.390	0.380	0.385
NOV.	5	-	0.430	2.250	0.440	0.400	0.425	0.390	0.370
	7	0.385	0.450	2.000	0.425	0.395	0.435	0.390	-
	13	0.390	0.465	1.750	0.480	0.400	0.450	0.360	0.400
	14	0.400	0.485	2.000	0.455	0.400	0.445	0.360	0.390
	20	0.410	0.460	0.870	0.475	0.430	0.455	0.430	0.390
	24	-	-	-	-	0.415	0.450	0.405	0.400
	25	0.415	0.450	2.100	0.480	-	-	-	-

1 REFERS TO ORGANIC NITROGEN PLUS AMMONIA

DISSOLVED SILICA

mg/L

DATE	1538	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	0.20	2.20	0.10	-	0.15	1.05	0.15
25	0.15	0.15	2.35	0.25	-	0.25	0.80	0.25
SEP. 2	0.20	0.35	3.20	0.25	-	0.20	0.95	0.35
4	0.20	0.25	2.65	0.25	-	0.30	0.50	0.25
8	0.20	0.25	4.50	0.20	-	0.35	0.80	0.25
11	-	0.35	3.40	0.30	-	-	0.60	0.35
15	0.10	0.35	1.95	0.30	-	0.15	0.40	0.10
18	0.20	0.25	2.90	0.20	-	0.25	0.40	0.20
22	0.20	0.25	4.00	0.30	-	0.25	0.20	0.35
20	0.20	0.30	1.65	0.30	-	-	0.90	0.40
OCT. 2	0.25	0.15	3.75	0.35	0.25	0.20	0.75	0.20
6	-	-	-	-	0.30	0.30	0.55	0.35
9	0.45	0.30	1.90	0.40	0.50	0.30	0.80	0.50
14	0.35	0.35	3.95	0.40	0.35	0.35	0.40	0.45
17	0.30	0.30	3.05	0.30	0.30	0.30	0.70	0.25
20	0.45	0.35	3.70	0.40	0.40	0.25	0.30	0.30
28	0.35	0.40	1.90	0.35	0.30	0.35	0.35	0.35
NOV. 5	-	0.35	3.55	0.30	0.35	0.35	0.40	0.35
7	0.35	0.40	3.75	0.30	0.40	0.35	0.40	-
13	0.40	0.35	3.45	0.20	0.35	0.25	1.25	0.35
16	0.40	0.40	2.70	0.20	0.40	0.35	0.95	0.45
20	0.35	0.40	1.25	0.20	0.30	0.35	0.35	0.45
24	-	-	-	-	0.35	0.25	0.40	0.50
25	0.28	0.45	3.22	0.50	-	-	-	-

DISSOLVED ORGANIC CARBON

mg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	2.5	7.7	2.4	-	2.6	5.6	2.8
25	2.4	2.5	5.6	2.4	-	2.6	4.5	2.6
SEP. 2	2.8	3.1	11.6	2.9	-	2.8	4.7	2.8
4	2.8	2.8	5.8	2.8	-	2.6	3.6	-
8	2.4	2.6	5.1	2.6	-	2.4	3.6	2.6
11	-	2.3	7.2	2.5	-	-	2.9	2.0
15	2.1	2.2	3.8	2.1	-	2.1	2.8	2.4
18	2.2	2.2	5.0	2.1	-	2.2	2.6	2.1
22	2.1	2.2	5.0	2.1	-	2.1	2.7	2.1
29	2.1	2.2	2.9	1.9	-	-	4.1	1.9
OCT. 2	1.9	2.3	4.8	2.2	2.0	2.0	4.4	2.0
6	-	-	-	-	2.1	2.1	3.1	2.1
9	2.1	2.4	3.4	2.3	2.0	2.0	3.4	2.0
14	2.0	2.4	7.7	2.3	1.9	2.1	2.0	2.2
17	2.1	2.2	5.4	2.1	2.2	2.2	4.2	2.1
20	2.0	2.4	5.7	2.4	2.0	2.1	2.0	2.0
28	2.1	2.4	3.8	2.2	2.0	2.1	1.8	1.8
NOV. 5	-	2.1	6.0	2.3	2.0	2.0	2.1	1.9
7	2.0	2.4	5.2	2.3	2.0	2.0	1.9	-
13	1.9	2.3	4.1	2.3	2.0	2.1	4.7	1.8
16	1.9	2.4	5.9	2.4	1.9	2.1	5.0	2.0
20	1.9	2.2	2.9	2.2	2.0	2.1	2.0	1.7
24	-	-	-	-	1.9	1.9	1.9	1.9
25	1.9	2.1	5.4	2.2	-	-	-	-

CHLOROPHYLL a[1]

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	5.5	9.5	4.6	-	1.5	2.2	3.1
25	3.1	10.3	5.3	7.4	-	2.4	2.2	2.4
SEP. 2	10.4	8.6	3.6	8.6	-	0.9	1.8	3.0
4	4.8	4.5	5.6	5.5	-	4.0	2.4	4.1
8	7.4	16.0	4.0	20.0	-	3.7	5.3	2.1
11	-	11.0	11.2	10.3	-	-	1.5	2.7
15	3.7	5.4	5.6	4.5	-	3.6	3.1	3.0
18	2.7	7.8	4.2	7.7	-	2.5	2.6	4.4
22	4.4	7.4	3.4	6.7	-	3.8	3.6	5.7
29	4.8	7.5	4.7	7.8	-	-	1.4	1.4
OCT. 2	3.9	10.0	5.9	11.0	3.3	3.4	3.9	4.0
6	-	-	-	-	4.1	2.7	2.2	1.7
9	3.3	7.5	5.4	11.0	1.8	2.2	0.9	1.4
14	2.6	3.3	10.0	10.0	2.7	2.5	1.7	2.9
20	2.5	8.3	3.5	8.4	3.6	3.8	3.1	2.8
28	4.3	6.6	4.9	7.2	3.3	3.6	1.6	2.0
NOV. 5	-	8.2	1.8	11.0	4.0	4.1	3.0	1.8
7	4.0	6.3	2.0	6.4	3.0	4.0	3.0	-
13	2.8	11.0	5.4	16.0	-	-	4.1	2.5
16	3.1	10.0	7.0	18.0	3.5	7.5	3.6	1.8
20	3.9	8.9	15.0	17.0	7.8	7.6	7.1	1.5
24	-	-	-	-	4.8	7.0	3.2	1.8
25	7.1	7.5	6.4	14.0	-	-	-	-

1 UNCORRECTED FOR PHEOPHYTINS

CHLOROPHYLL b

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	0.9	1.8	0.6	-	0.7	0.9	0.6
25	0.4	4.4	1.1	1.0	-	0.6	1.2	0.9
SEP. 2	1.3	2.4	1.2	1.3	-	0.9	1.1	1.0
4	0.5	0.8	1.4	0.8	-	0.7	0.9	1.0
8	1.0	2.4	1.8	4.0	-	0.8	0.7	0.9
11	-	3.8	3.2	2.0	-	-	0.9	1.1
15	1.2	0.9	1.0	1.6	-	1.1	0.8	0.9
18	0.5	<0.1	0.8	1.0	-	0.6	0.6	0.8
22	0.2	<0.1	1.3	1.5	-	2.4	0.2	3.0
29	0.2	<0.1	0.8	1.0	-	-	0.8	0.8
OCT. 2	0.4	0.8	0.8	1.7	0.7	1.0	0.9	0.4
6	-	-	-	-	1.0	0.3	0.8	0.6
9	0.3	0.9	1.0	1.4	0.7	0.5	0.3	0.6
14	0.5	1.2	1.0	1.0	0.6	0.5	0.5	0.3
20	1.2	1.3	1.7	1.9	0.7	0.2	0.6	0.3
28	0.7	1.1	1.3	0.6	0.6	1.1	0.6	0.8
NOV. 5	-	1.2	1.3	1.4	1.0	1.2	0.7	0.9
7	0.5	1.5	0.4	0.6	0.8	0.3	1.1	-
13	1.0	1.2	1.5	1.6	-	-	0.5	0.5
14	0.9	1.5	1.4	0.6	0.7	0.8	1.6	0.6
20	0.9	0.8	3.8	1.2	1.0	0.8	0.9	0.7
24	-	-	-	-	0.6	1.1	0.8	0.6
25	1.5	1.1	1.5	1.6	-	-	-	-

CHLOROPHYLL a[1]

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	4.5	7.8	3.7	-	1.5	0.8	2.6
25	2.4	9.7	5.0	6.6	-	1.8	2.2	1.7
SEP. 2	9.3	6.4	2.9	5.4	-	7.0	1.3	2.7
4	4.2	3.8	8.7	4.1	-	3.7	0.5	4.2
8	6.7	14.0	4.0	13.0	-	3.7	4.6	1.8
11	-	10.6	7.8	8.4	-	-	0.8	2.0
15	1.5	0.8	1.0	0.2	-	1.1	0.0	2.2
18	0.5	0.7	0.5	0.1	-	0.9	0.2	0.6
22	0.5	0.6	1.3	0.7	-	<0.1	0.4	1.2
29	0.6	1.0	1.1	3.2	-	-	0.3	0.6
OCT. 2	0.9	1.4	0.8	0.8	0.2	0.3	0.2	0.7
6	-	-	-	-	1.8	0.6	0.4	0.8
9	1.2	0.6	0.5	1.4	0.8	0.7	0.4	0.2
14	0.3	0.8	0.1	1.1	0.8	0.2	0.1	1.0
20	-	<0.1	0.3	0.3	0.1	0.9	1.1	0.6
28	0.2	0.7	0.9	0.2	0.7	0.2	<0.1	0.1
NOV. 5	-	0.5	0.8	0.8	0.2	0.7	0.6	0.8
7	0.5	1.5	0.4	0.6	0.8	0.3	<0.1	-
13	0.7	0.2	0.2	2.6	-	-	1.0	0.7
14	0.3	1.2	0.1	1.2	0.3	0.7	0.2	0.7
20	0.4	1.5	1.0	2.6	7.0	0.8	1.0	0.6
24	-	-	-	-	0.6	0.2	0.8	1.1
25	0.6	0.9	0.5	3.2	-	-	-	-

TOTAL COLIFORM

org/100 mL

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	<20	-	— <20	-	25	420	260
25	90	600	-	20	-	45	-	700
SEP. 2	>750	>750	>750	>750	-	-	-	225
4	245	1750	-	440	-	220	420	340
8	2380	>1200	33000	360	-	-	-	<20
11	-	3000	150000	1140	-	-	900	150
15	80	900	43000	340	-	60	1600	20
18	340	-	-	1040	-	580	860	800
22	160	1180	540000	240	-	260	380	60
29	120	3000	180000	540	-	-	1480	180
OCT. 2	320	7600	380000	1400	900	280	3500	260
6	-	-	-	-	140	80	800	80
9	120	1300	32000	200	40	40	1200	60
14	80	>100	17000	100	>50	40	>100	60
17	*	1100	*	-	*	*	*	80
20	1800	>3000	270000	640	200	200	600	420
28	1600	24000	24000	>3000	3100	3150	900	1440
NOV. 5	-	5800	240000	600	300	600	>7500	520
7	>7500	8100	260000	980	960	1460	100	-
13	2900	900	14000	880	80	480	>3000	140
20	400	900	21000	500	1180	3300	2400	20
24	-	-	-	-	450	100	150	10
25	880	1180	104000	440	-	-	-	-

1 CORRECTED FOR PHEOPHYTINS

* TOO NUMEROUS TO COUNT

FECAL COLIFORM

org/100mL

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	<4	>600	<4	-	4	12	4
25	4	12	2900	4	-	<4	540	<4
SEP. 2	80	376	>600	20	-	48	4	<4
4	4	24	-	4	-	4	<10	5
8	<4	<4	4400	<4	-	-	>600	<4
11	-	>300	>15000	120	-	-	<10	28
15	<4	<10	400	<2	-	<4	<5	<4
18	<4	56	>1500	20	-	8	<4	<4
22	<4	<4	4600	4	-	<4	<4	<4
29	<2	36	7000	10	-	-	16	<2
OCT. 2	<4	28	7400	8	<4	<4	20	8
6	-	-	-	-	<4	<4	<4	<4
9	<2	24	100	<4	<4	<2	10	<2
14	2	12	1000	4	<2	4	<2	<2
17	>600	<4	532	-	>600	308	>600	<4
20	10	368	100	4	<10	4	<10	<4
28	15	550	280	92	40	110	35	76
NOV. 5	-	200	2800	4	8	5	>600	<4
7	>750	510	>7500	92	48	100	30	-
13	<4	80	496	36	4	24	>600	4
20	20	<10	300	4	148	290	625	<4
24	-	-	-	-	8	10	<10	<2
25	<10	20	20	532	-	-	-	-

FECAL STREPTOCOCCUS

org/100mL

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	<4	750	4	-	12	20	<4
25	<4	28	8000	16	-	<4	>600	<4
SEP. 2	>600	32	>600	12	-	>600	>600	264
4	4	84	>1500	20	-	<4	84	8
8	<4	<4	>3000	<4	-	-	>600	<4
11	-	188	51000	8	-	-	490	220
15	12	20	700	16	-	20	100	<4
18	<4	16	>1500	4	-	60	24	28
22	4	4	4400	<4	-	4	72	<4
29	<4	4	700	<4	-	-	320	<4
OCT. 2	<4	4	7900	<4	12	16	>600	<4
6	-	-	-	-	32	<2	1330	56
9	<4	12	32000	<4	<10	4	600	72
14	20	2	>15000	36	<2	2	<4	24
17	284	48	>600	-	356	272	>600	8
20	60	508	6100	52	12	>600	16	16
28	28	540	800	128	92	>100	24	48
NOV. 5	-	140	>7500	<4	12	10	>600	<4
7	90	240	4900	4	4	40	>10	-
13	<4	8	216	16	12	64	>600	4
20	5	20	800	24	28	45	160	<4
24	-	-	-	-	<4	5	<5	<4
25	4	<5	40	>600	-	-	-	-

PSEUDOMONAS AERUGINOSA

org/100mL

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	-	<2	188	<2	-	8	2	<2
25	<2	<2	90	<2	-	<2	16	200
SEP. 2	174	42	>300	14	-	>300	>300	<2
4	10	176	440	4	-	40	78	<2
8	2	106	348	128	-	-	>300	2
11	-	200	1210	60	-	-	150	4
15	10	8	160	4	-	4	20	<2
18	<2	2	750	2	-	16	<2	<2
22	<4	<4	400	<2	-	12	<2	<2
29	<2	8	180	<2	-	-	12	<2
OCT. 2	<2	8	6300	<2	8	8	70	<2
6	-	-	-	-	12	<2	<2	<2
9	<2	<2	<100	<2	<2	2	4	2
14	<2	2	10	<4	<2	<2	<2	<2
17	16	<2	>300	-	38	20	>300	<2
20	<2	20	30	<2	<2	<2	<10	<2
28	<2	10	<10	2	<2	4	<4	<2
NOV. 5	-	<2	98	<2	<2	<2	100	<2
7	6	16	340	<2	<2	4	<5	-
13	<2	8	72	8	2	2	>300	<2
20	<2	<2	<10	2	8	4	20	<2
24	-	-	-	-	2	<2	<4	<2
25	<2	2	<5	96	-	-	-	-

HETEROTROPHIC BACTERIA org/mL

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	-	145000	>750000	35000	-	350000	11000	4000
25	1000	80000	>750000	15000	-	20000	220000	1000
SEP. 2	50500	215000	>750000	75000	-	55000	8500	7500
4	12500	155000	>750000	61500	-	22000	355000	24500
8	56500	24000	750000	38500	-	145000	>750000	66500
11	-	290000	750000	56000	-	-	14500	8500
15	<1000	250000	425000	75000	-	34500	39000	<1000
18	155000	325000	>750000	45000	-	285000	270000	2000
22	165000	95000	4000000	61000	-	455000	340000	-
29	2000	485000	125000	50000	-	-	24500	11500
OCT. 2	5000	335000	17000	63000	13000	-	-	12000
6	-	-	-	-	14000	6500	21000	12500
9	50000	275000	610000	95000	14500	9500	30500	14500
14	28500	75000	325000	70000	13000	22500	2000	-
17	33500	480000	>750000	38000	66500	60000	>750000	27000
20	43000	600000	140000	165000	37500	21500	39000	10000
NOV. 5	-	460000	1150000	115000	70000	64000	265000	260000
7	270000	685000	585000	205000	55500	120000	150000	-
14	3000	420000	50000	335000	60500	180000	>750000	-
20	28000	72500	100000	430000	170000	110000	380000	4500
24	-	-	-	-	65000	71000	41500	3000
25	90000	525000	>750000	335000	-	-	-	-

pH

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	-	8.30	7.77	8.14	-	8.16	7.68	8.33
25	8.32	8.17	7.74	8.26	-	8.27	8.70	8.53
SEP. 2	8.06	7.78	7.00	7.89	-	8.13	7.64	8.13
4	8.40	8.30	7.77	8.20	-	8.10	7.91	-
8	8.38	8.14	7.25	7.90	-	8.03	7.38	8.12
11	-	7.85	7.50	8.24	-	-	7.81	7.97
15	8.01	7.89	7.38	7.87	-	7.86	7.67	8.10
18	7.97	7.86	7.41	7.95	-	7.80	7.78	8.03
22	8.17	8.03	7.08	7.35	-	7.84	7.21	7.94
29	8.17	7.75	7.38	7.85	-	-	6.75	7.84
OCT. 2	7.90	7.79	7.17	7.82	7.78	7.76	6.75	7.85
6	-	-	-	-	8.05	8.10	7.21	7.72
9	7.92	7.91	7.31	7.94	7.85	7.93	7.31	7.85
14	8.15	7.98	7.31	8.05	8.00	8.11	8.00	8.13
17	8.07	8.01	7.59	8.13	8.08	7.99	7.40	8.65
20	7.97	7.86	7.37	7.97	8.14	8.01	8.15	8.23
28	8.13	7.84	7.52	8.00	8.04	8.03	8.18	7.99
NOV. 5	-	8.02	7.28	8.00	8.01	8.06	7.91	8.08
7	7.90	7.76	7.31	7.84	7.98	7.86	7.65	-
13	8.01	7.82	7.39	7.96	7.91	8.01	7.41	8.08
14	8.03	7.29	7.98	8.10	7.05	8.16	8.01	8.12
20	8.09	8.22	7.95	8.07	8.04	7.92	8.20	8.21
24	-	-	-	-	8.17	8.02	8.11	8.21
25	8.15	8.05	7.57	8.06	-	-	-	-

Organochlorine Compounds

PCB

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	x	x	.030	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	.300	x	-	x	.020	x
4	x	x	.080	.020	-	x	x	x
8	x	x	x	x	-	x	x	.025
11	-	.020	.030	x	-	-	x	x
15	x	.040	x	x	-	.020	.020	x
18	x	x	.020	x	-	x	x	.030
22	x	x	x	x	-	-	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	.030	x	x	x	x	x
20	x	x	.050	x	x	x	x	x
NOV. 21	x	x	x	x	.025	x	x	x
27	-	x	x	x	x	x	x	-
3	x	x	x	x	x	x	x	x
13	.020	x	.085	x	.025	x	.020	x
22	x	x	.090	x	x	x	x	x
24	-	-	-	-	-	-	-	-
25	x	x	x	x	-	-	-	-

HCB

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	x	x	.010	x	-	.002	.025	x
25	x	x	.010	x	-	-	.030	x
SEP. 2	x	x	.060	x	-	x	.025	.001
4	x	x	.019	x	-	x	.005	x
8	x	x	.020	x	-	x	.010	x
11	-	x	.020	x	-	-	.010	x
15	x	.005	.001	x	-	x	.005	x
18	x	x	.010	x	-	x	.005	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	.010	x	x	x	.020	x
6	-	-	-	-	-	-	-	x
9	x	x	.010	x	x	x	.020	.001
14	x	x	.009	x	x	x	x	.001
17	x	x	.009	x	.001	x	.030	x
20	x	.001	.005	x	x	x	x	x
28	x	x	.002	x	x	x	x	x
NOV. 5	-	x	.003	x	x	x	.001	x
7	x	.001	.004	x	x	x	x	-
13	x	x	.004	x	x	x	.025	x
14	x	x	x	x	x	x	x	x
20	x	x	.002	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	.001	x	-	-	-	-

α BHC

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	x	x	x	x	-	x	x	x
25	x	.005	x	.010	-	-	x	.005
SEP. 2	.001	.005	.020	.001	-	.001	.10	.001
4	.005	.001	.005	.005	-	x	x	.005
8	x	x	x	x	-	x	x	x
11	-	.010	x	.005	-	-	x	.010
15	.005	x	.005	.005	-	.005	.020	.005
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	.001
29	x	x	.001	x	-	-	x	x
OCT. 2	-	.010	x	.010	x	x	x	.020
6	-	-	-	-	-	-	-	.010
9	.010	.010	.001	.010	.005	.010	.005	.010
14	.005	.010	.020	.009	.005	.001	.005	.010
17	.006	x	.028	x	.009	.007	x	.004
20	.008	.009	.020	.007	.008	.008	.005	x
28	.007	.006	.014	.007	.006	.007	.004	.005
NOV. 5	-	.003	.017	.005	.006	.004	.005	.004
7	x	.007	.010	.006	.004	.004	.004	-
13	.004	.007	.022	.007	.004	.005	.005	.005
14	.004	.002	.017	.007	.005	.001	.035	.002
20	.006	.005	.006	.004	.006	.007	.006	.005
24	-	-	-	-	.004	.005	.005	.005
25	.004	.004	.004	.004	-	-	-	-

LINDANE

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	.001	x	x	.005	-	-	.001	x
SEP. 2	.001	.001	.010	x	-	.001	.001	.001
4	.001	.001	.001	.001	-	x	x	.001
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	-	.005	x
15	x	x	.001	x	-	x	.005	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	.001	x	-	-	x	x
OCT. 2	-	x	x	.001	x	x	.001	.010
6	-	-	-	-	-	-	-	.001
9	.005	.001	.010	x	x	x	.010	.001
14	.001	.001	.020	.001	.001	x	.001	.001
17	x	x	.064	x	x	x	.005	x
20	.002	.003	.080	.002	.007	.001	x	x
28	.001	.001	.008	.002	.001	.002	.001	.001
NOV. 4	-	x	x	x	x	x	x	x
7	x	.002	.010	.002	.001	.001	.002	-
13	.001	.002	.021	.002	.001	.001	.003	.001
14	.001	.001	.006	.002	.001	x	.005	.001
20	.002	.002	.013	.002	.001	.002	.002	.001
24	-	-	-	-	.001	.001	.001	.001
25	.001	.001	.014	.001	-	-	-	-

β BHC

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	.001	.001	.001	.001	-	-	x	x
SEP. 2	.001	.001	.010	x	-	x	.04	x
4	.001	x	.001	.001	-	x	x	.001
8	x	x	x	x	-	x	x	x
11	-	.001	x	.001	-	-	x	x
15	x	x	.001	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	.001	x	-	-	x	x
OCT. 2	-	x	.001	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	.005	x	x	x	x	.005	.005	x
14	x	.005	.001	x	x	x	.001	x
17	x	x	.001	x	x	x	x	x
20	.003	x	x	.003	x	.003	x	x
28	x	.001	.002	x	.001	x	x	.001
NOV. 4	-	x	.015	.002	.003	x	.001	x
7	x	x	.002	x	.001	x	.005	-
13	x	x	.002	x	x	x	x	x
14	.001	x	x	.003	.002	.001	.001	x
20	.006	x	.008	.001	.001	x	.002	.001
24	-	-	-	-	x	.001	.001	.001
25	x	.002	.002	.001	-	-	-	-

HEPTACHLOR

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	-	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 4	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

HEPTACHLOR EPOXIDE

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	.001
SEP. 2	x	x	.030	x	-	x	.001	x
6	x	x	x	x	-	x	x	x
8	x	x	x	.005	-	.010	x	x
11	-	x	x	x	-	-	x	x
15	x	x	x	x	-	.001	x	.001
18	x	x	x	x	-	x	.001	x
22	x	x	x	x	-	x	x	.001
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	.004	x	x	.015	.002	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	.001	x	x	.003	x
14	x	.002	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

ENDRIN

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	.005	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
6	x	x	x	x	-	x	x	x
8	x	x	x	x	-	.030	.010	x
11	-	x	x	x	-	-	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	.031	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	.012	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

THIODAN I

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	.005	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
6	x	x	x	x	-	.001	x	x
8	x	.005	.005	x	-	.005	.005	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

THIODAN II

µg/L

DATE	1538	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	.005	x	x	x	-	x	.010	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

ALDRIN

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

DIELDRIN

µg/L

DATE	1538	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	.001	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	.005	.005	.005	-	.005	.001	.001
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	.005	x
22	x	.001	x	x	-	x	x	x
29	x	x	.010	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	.007	x	x	x	x	x
28	x	x	x	.003	x	x	x	x
NOV. 5	-	x	x	x	.010	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	.003	x	x	x	x	x
14	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

pp DDT

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

op DDT

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

pp DDD

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

pp DDE

µg/L

DATE	1536	1364	1375	202	1087	1084	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	.001
9	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	.006	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

α CHLORDANE

µg/L

DATE	1536	1364	1375	202	1087	1084	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	.001	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	.001
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	.011	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

γ CHLORDANE

µg/L

DATE	1536	1364	1375	202	1087	1084	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	.010	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	.002	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

MIREX µg/L

DATE	1536	1364	1375	202	1987	1988	1419	1472
AUG. 19	x	x	x	x	-	x	x	x
25	x	x	x	x	-	-	x	x
SEP. 2	x	x	x	x	-	x	x	x
4	x	x	x	x	-	x	x	x
8	x	x	x	x	-	x	x	x
11	-	x	x	x	-	x	x	x
15	x	x	x	x	-	x	x	x
18	x	x	x	x	-	x	x	x
22	x	x	x	x	-	x	x	x
29	x	x	x	x	-	-	x	x
OCT. 2	-	x	x	x	x	x	x	x
6	-	-	-	-	-	-	-	x
9	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x
NOV. 5	-	x	x	x	x	x	x	x
7	x	x	x	x	x	x	x	-
13	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x
20	x	x	x	x	x	x	x	x
24	-	-	-	-	x	x	x	x
25	x	x	x	x	-	-	-	-

METALS

CHROMIUM

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
SEP. 18	<2	<2	2	<2	-	3	<2	<2
18	<2	3	9	<2	-	<2	<2	<2
20	<2	<2	<2	<2	-	-	<2	<2
OCT. 2	3	<2	3	2	<2	3	9	2
6	-	-	-	-	3	2	4	<2
17	2	3	3	2	4	2	4	2
20	<2	3	9	<2	<2	3	3	<2
28	<2	4	4	2	<2	2	<2	<2
NOV. 5	-	3	7	3	3	-	-	-
7	3	3	20	3	<2	-	<2	-
13	1	1	5	1	1	1	10	1
14	-	1	7	1	1	1	16	<1
20	<2	<2	18	<2	<2	2	<2	-
24	-	-	-	-	3	1	2	1
25	<1	1	3	1	-	-	-	-

LEAD

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
SEP. 18	<2	<2	2	<2	-	<3	5	<5
18	<3	3	10	3	-	<3	3	<3
20	<3	<3	6	<3	-	-	<3	<3
OCT. 2	<3	<3	20	<3	<3	<3	<3	<3
6	-	-	-	-	<3	<3	<3	<3
17	3	3	6	3	3	3	3	4
20	<3	<3	7	<3	<3	4	<3	<3
28	<3	4	8	4	4	4	4	6
NOV. 5	-	4	11	3	<3	-	-	-
7	<3	<3	20	4	<3	-	4	-
13	3	3	6	3	3	3	3	7
14	-	3	33	<3	<3	<3	<3	<3
20	<3	<3	86	3	<3	6	<3	-
24	-	-	-	-	5	4	7	3
25	3	<2	13	4	-	-	-	-

ZINC

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
SEP. 18	2	4	15	8	-	<1	4	3
18	3	2	26	3	-	4	7	4
20	3	3	10	2	-	-	6	5
OCT. 2	5	3	47	5	4	5	11	2
6	-	-	-	-	5	3	7	7
17	3	3	29	3	8	4	8	4
20	3	0.8	27	6	4	5	3	5
28	3	8	20	7	4	8	11	7
NOV. 5	-	21	36	6	7	-	-	-
7	9	7	39	11	3	-	7	-
13	3	9	20	6	3	3	11	5
14	-	9	58	9	6	6	12	5
20	6	9	110	10	8	12	8	-
24	-	-	-	-	19	7	12	6
25	4	5	24	10	-	-	-	-

COPPER

µg/L

DATE	1536	1364	1375	202	1987	1984	1419	1872
SEP. 18	6	2	4	4	-	<1	3	2
18	2	4	8	3	-	2	3	2
20	3	2	4	2	-	-	4	<1
OCT. 2	4	2	13	4	5	5	7	6
6	-	-	-	-	5	2	5	5
17	2	1	14	1	1	1	1	1
20	<3	<3	7	<3	1	4	1	2
28	2	3	6	3	2	2	2	2
NOV. 5	-	4	11	3	2	-	-	-
7	2	2	10	3	1	-	2	-
13	1	5	4	2	1	1	5	6
14	-	2	11	2	2	2	4	1
20	2	2	24	3	3	4	3	-
24	-	-	-	-	5	4	5	4
25	1	1	4	2	-	-	-	-